CA2 ALPH A56 1957 c.2



2nd Cop



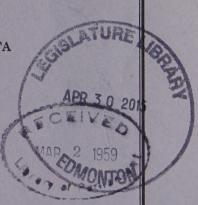
ANNUAL REPORT report of that State No p. Du

OF THE

Department of Public Health

PROVINCE OF ALBERTA

1957



PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

EDMONTON: PRINTED BY L. S. WALL, QUEEN'S PRINTER 1959

394

Digitized by the Internet Archive in 2020 with funding from Legislative Assembly of Alberta - Alberta Legislature Library



ANNUAL REPORT

OF THE

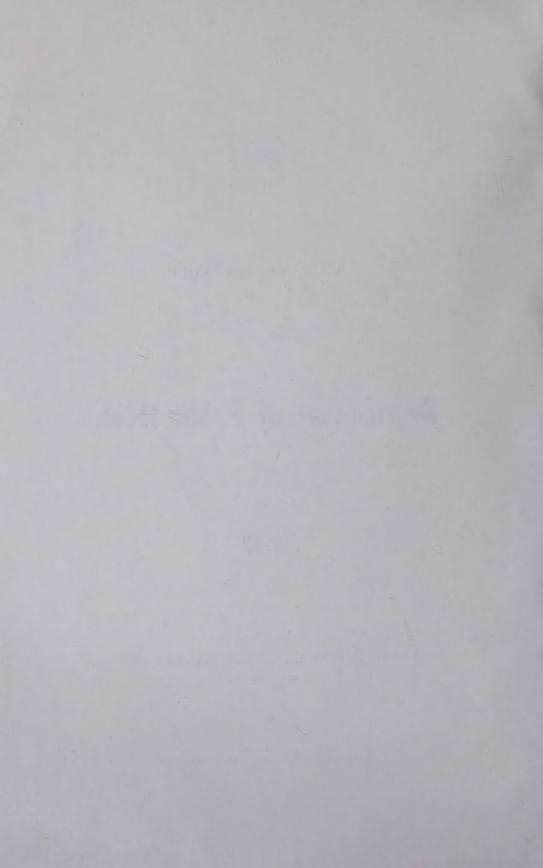
Department of Public Health

PROVINCE OF ALBERTA

1957

PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

EDMONTON: PRINTED BY L. S. WALL, QUEEN'S PRINTER $1\,9\,5\,9$



December 31, 1958.

To HIS HONOUR,

J. J. BOWLEN,

Lieutenant Governor of the Province of Alberta.

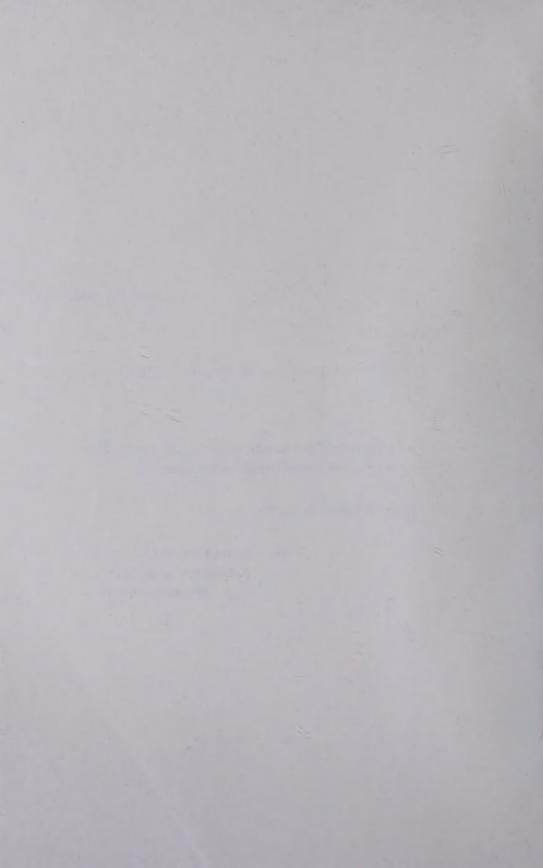
SIR:

I have the honour to transmit herewith, the Annual Report of the Department of Public Health for the year 1957.

I have the honour to be, Sir,

Your obedient Servant,
J. Donovan Ross, M.D.

Minister of Health.



December 31, 1958.

To The Honourable Dr. J. Donovan Ross,
Minister of Health,
Administration Building, Edmonton, Alberta.

SIR:

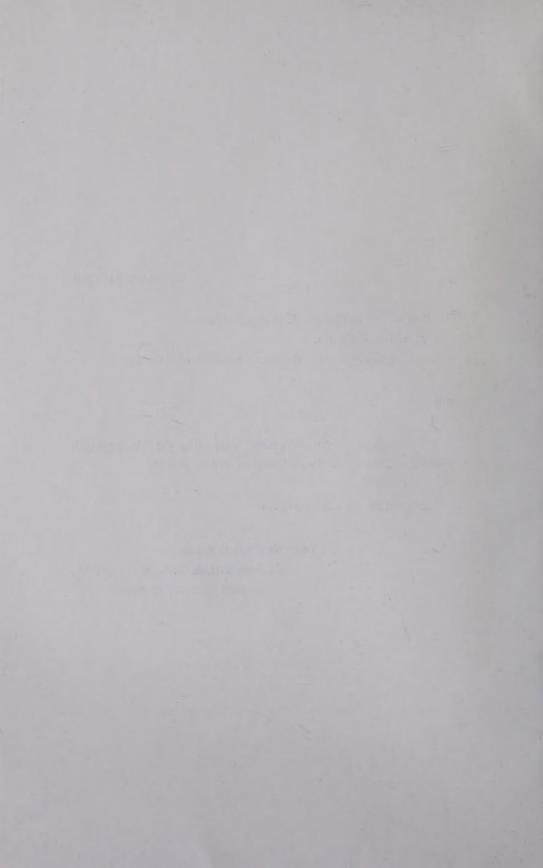
I have the honour to submit herewith, the Thirty-Ninth Annual Report of the Department of Public Health.

I have the honour to be, Sir,

Your obedient Servant,

A. Somerville, B.A., M.D., D.P.H.,

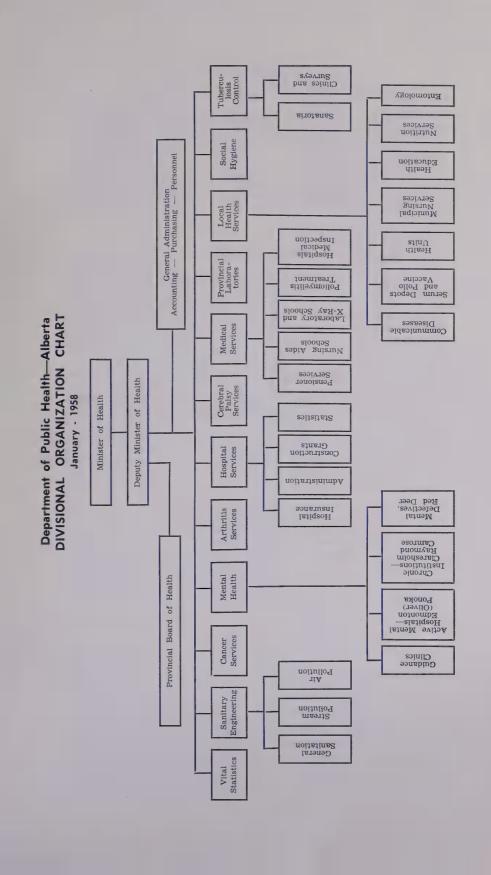
Deputy Minister of Health.



CONTENTS

PART I

Division of Local Health Services		Page
Communicable Diseases	Summary	
Health Units		
Public Health Nursing	Communicable Diseases	10
Health Education		21
Nutrition Services	Public Health Nursing	
Entomology	Health Education	26
Division of Medical Services School for Nursing Aides 38	Nutrition Services	33
School for Nursing Aides	Entomology	35
Nursing Recruitment Program	Division of Medical Services	
Laboratory and X-Ray School 39 Social Service Recipients 39 Poliomyelitis Services 43 Division of Cancer Services 44 Division of Social Hygiene 46 Provincial Laboratories 51 Division of Sanitary Engineering 57 Civil Service Nurse 64 Division of Arthritis Services 65 Division of Cerebral Palsy Clinics 66 Division of Tuberculosis Control 71 Division of Mental Health 81 Provincial Mental Hospital, Ponoka 98 Provincial Mental Institute, Edmonton 108 Provincial Auxiliary Mental Hospital, Claresholm 118 Provincial Auxiliary Mental Hospital, Raymond 121 Rosehaven, Camrose 124 Provincial Training School, Red Deer 129 Guidance Clinics 82 Eugenics Board 137 National Health Grants 140 Blood Transfusion Service PART III	School for Nursing Aides	38
Social Service Recipients	Nursing Recruitment Program	38
Poliomyelitis Services 43 Division of Cancer Services 44 Division of Social Hygiene 46 Provincial Laboratories 51 Division of Sanitary Engineering 57 Civil Service Nurse 64 Division of Arthritis Services 65 Division of Cerebral Palsy Clinics 66 Division of Tuberculosis Control 71 Division of Mental Health 81 Provincial Mental Hospital, Ponoka 98 Provincial Mental Institute, Edmonton 108 Provincial Auxiliary Mental Hospital, Claresholm 118 Provincial Auxiliary Mental Hospital, Raymond 121 Rosehaven, Camrose 124 Provincial Training School, Red Deer 129 Guidance Clinics 82 Eugenics Board 137 National Health Grants 140 Blood Transfusion Service 141 PART II Hospitals Division (See separate Contents' Page)	Laboratory and X-Ray School	39
Division of Cancer Services 44 Division of Social Hygiene 46 Provincial Laboratories 51 Division of Sanitary Engineering 57 Civil Service Nurse 64 Division of Arthritis Services 65 Division of Cerebral Palsy Clinics 66 Division of Tuberculosis Control 71 Division of Mental Health 81 Provincial Mental Hospital, Ponoka 98 Provincial Mental Institute, Edmonton 108 Provincial Auxiliary Mental Hospital, Claresholm 118 Provincial Auxiliary Mental Hospital, Raymond 121 Rosehaven, Camrose 124 Provincial Training School, Red Deer 129 Guidance Clinics 82 Eugenics Board 137 National Health Grants 140 Blood Transfusion Service 141 PART III Hospitals Division (See separate Contents' Page)	Social Service Recipients	39
Division of Social Hygiene 46 Provincial Laboratories 51 Division of Sanitary Engineering 57 Civil Service Nurse 64 Division of Arthritis Services 65 Division of Cerebral Palsy Clinics 66 Division of Tuberculosis Control 71 Division of Mental Health 81 Provincial Mental Hospital, Ponoka 98 Provincial Mental Institute, Edmonton 108 Provincial Auxiliary Mental Hospital, Claresholm 118 Provincial Auxiliary Mental Hospital, Raymond 121 Rosehaven, Camrose 124 Provincial Training School, Red Deer 129 Guidance Clinics 82 Eugenics Board 137 National Health Grants 140 Blood Transfusion Service 141 PART III	Poliomyelitis Services	43
Provincial Laboratories 51 Division of Sanitary Engineering 57 Civil Service Nurse 64 Division of Arthritis Services 65 Division of Cerebral Palsy Clinics 66 Division of Tuberculosis Control 71 Division of Mental Health 81 Provincial Mental Hospital, Ponoka 98 Provincial Mental Institute, Edmonton 108 Provincial Auxiliary Mental Hospital, Claresholm 118 Provincial Auxiliary Mental Hospital, Raymond 121 Rosehaven, Camrose 124 Provincial Training School, Red Deer 129 Guidance Clinics 82 Eugenics Board 137 National Health Grants 140 Blood Transfusion Service 141 PART III Hospitals Division (See separate Contents' Page)	Division of Cancer Services	44
Provincial Laboratories 51 Division of Sanitary Engineering 57 Civil Service Nurse 64 Division of Arthritis Services 65 Division of Cerebral Palsy Clinics 66 Division of Tuberculosis Control 71 Division of Mental Health 81 Provincial Mental Hospital, Ponoka 98 Provincial Mental Institute, Edmonton 108 Provincial Auxiliary Mental Hospital, Claresholm 118 Provincial Auxiliary Mental Hospital, Raymond 121 Rosehaven, Camrose 124 Provincial Training School, Red Deer 129 Guidance Clinics 82 Eugenics Board 137 National Health Grants 140 Blood Transfusion Service 141 PART III Hospitals Division (See separate Contents' Page)	Division of Social Hygiene	46
Civil Service Nurse 64 Division of Arthritis Services 65 Division of Cerebral Palsy Clinics 66 Division of Tuberculosis Control 71 Division of Mental Health 81 Provincial Mental Hospital, Ponoka 98 Provincial Mental Institute, Edmonton 108 Provincial Auxiliary Mental Hospital, Claresholm 118 Provincial Auxiliary Mental Hospital, Raymond 121 Rosehaven, Camrose 124 Provincial Training School, Red Deer 129 Guidance Clinics 82 Eugenics Board 137 National Health Grants 140 Blood Transfusion Service 141 PART III Hospitals Division (See separate Contents' Page)		
Division of Arthritis Services 65 Division of Cerebral Palsy Clinics 666 Division of Tuberculosis Control 71 Division of Mental Health 81 Provincial Mental Hospital, Ponoka 98 Provincial Mental Institute, Edmonton 108 Provincial Auxiliary Mental Hospital, Claresholm 118 Provincial Auxiliary Mental Hospital, Raymond 121 Rosehaven, Camrose 124 Provincial Training School, Red Deer 129 Guidance Clinics 82 Eugenics Board 137 National Health Grants 140 Blood Transfusion Service 141 PART II Hospitals Division (See separate Contents' Page)	Division of Sanitary Engineering	57
Division of Cerebral Palsy Clinics 66 Division of Tuberculosis Control 71 Division of Mental Health 81 Provincial Mental Hospital, Ponoka 98 Provincial Mental Institute, Edmonton 108 Provincial Auxiliary Mental Hospital, Claresholm 118 Provincial Auxiliary Mental Hospital, Raymond 121 Rosehaven, Camrose 124 Provincial Training School, Red Deer 129 Guidance Clinics 82 Eugenics Board 137 National Health Grants 140 Blood Transfusion Service 141 PART II Hospitals Division (See separate Contents' Page)	Civil Service Nurse	64
Division of Tuberculosis Control 71 Division of Mental Health 81 Provincial Mental Hospital, Ponoka 98 Provincial Mental Institute, Edmonton 108 Provincial Auxiliary Mental Hospital, Claresholm 118 Provincial Auxiliary Mental Hospital, Raymond 121 Rosehaven, Camrose 124 Provincial Training School, Red Deer 129 Guidance Clinics 82 Eugenics Board 137 National Health Grants 140 Blood Transfusion Service 141 PART II Hospitals Division (See separate Contents' Page)	Division of Arthritis Services	65
Division of Mental Health 81 Provincial Mental Hospital, Ponoka 98 Provincial Mental Institute, Edmonton 108 Provincial Auxiliary Mental Hospital, Claresholm 118 Provincial Auxiliary Mental Hospital, Raymond 121 Rosehaven, Camrose 124 Provincial Training School, Red Deer 129 Guidance Clinics 82 Eugenics Board 137 National Health Grants 140 Blood Transfusion Service 141 PART II Hospitals Division (See separate Contents' Page)	Division of Cerebral Palsy Clinics	66
Provincial Mental Hospital, Ponoka 98 Provincial Mental Institute, Edmonton 108 Provincial Auxiliary Mental Hospital, Claresholm 118 Provincial Auxiliary Mental Hospital, Raymond 121 Rosehaven, Camrose 124 Provincial Training School, Red Deer 129 Guidance Clinics 82 Eugenics Board 137 National Health Grants 140 Blood Transfusion Service 141 PART II Hospitals Division (See separate Contents' Page)	Division of Tuberculosis Control	71
Provincial Mental Institute, Edmonton 108 Provincial Auxiliary Mental Hospital, Claresholm 118 Provincial Auxiliary Mental Hospital, Raymond 121 Rosehaven, Camrose 124 Provincial Training School, Red Deer 129 Guidance Clinics 82 Eugenics Board 137 National Health Grants 140 Blood Transfusion Service 141 PART II Hospitals Division (See separate Contents' Page)	Division of Mental Health	81
Provincial Auxiliary Mental Hospital, Claresholm 118 Provincial Auxiliary Mental Hospital, Raymond 121 Rosehaven, Camrose 124 Provincial Training School, Red Deer 129 Guidance Clinics 82 Eugenics Board 137 National Health Grants 140 Blood Transfusion Service 141 PART II Hospitals Division (See separate Contents' Page)	Provincial Mental Hospital, Ponoka	98
Provincial Auxiliary Mental Hospital, Claresholm 118 Provincial Auxiliary Mental Hospital, Raymond 121 Rosehaven, Camrose 124 Provincial Training School, Red Deer 129 Guidance Clinics 82 Eugenics Board 137 National Health Grants 140 Blood Transfusion Service 141 PART II Hospitals Division (See separate Contents' Page)	Provincial Mental Institute, Edmonton	108
Rosehaven, Camrose 124 Provincial Training School, Red Deer 129 Guidance Clinics 82 Eugenics Board 137 National Health Grants 140 Blood Transfusion Service 141 PART II Hospitals Division (See separate Contents' Page) PART III	Provincial Auxiliary Mental Hospital, Claresholm	118
Rosehaven, Camrose 124 Provincial Training School, Red Deer 129 Guidance Clinics 82 Eugenics Board 137 National Health Grants 140 Blood Transfusion Service 141 PART II Hospitals Division (See separate Contents' Page) PART III	Provincial Auxiliary Mental Hospital, Raymond	121
Guidance Clinics 82 Eugenics Board 137 National Health Grants 140 Blood Transfusion Service 141 PART II Hospitals Division (See separate Contents' Page) PART III		
Eugenics Board 137 National Health Grants 140 Blood Transfusion Service 141 PART II Hospitals Division (See separate Contents' Page) PART III	Provincial Training School, Red Deer	129
Eugenics Board 137 National Health Grants 140 Blood Transfusion Service 141 PART II Hospitals Division (See separate Contents' Page) PART III	Guidance Clinics	82
National Health Grants 140 Blood Transfusion Service 141 PART II Hospitals Division (See separate Contents' Page) PART III		
PART II Hospitals Division (See separate Contents' Page) PART III		
PART II Hospitals Division (See separate Contents' Page) PART III	Blood Transfusion Service	141
Hospitals Division (See separate Contents' Page) PART III		
PART III	PART II	
	Hospitals Division (See separate Contents	Page)
Vital Statistics (See separate Contents' Page)	PART III	
	Vital Statistics (See separate Contents	Page)



PROVINCIAL BOARD OF HEALTH

The Provincial Board of Health met on such occasions as were necessary during the year. A review of some of the major items which received the attention of the Board is contained in this report.

There was no change in membership of the Board during the year. Dr. A. Somerville, Provincial Medical Officer of Health, continued as Chairman, and Dr. R. D. Stuart, Provincial Bacteriologist, and Mr. H. L. Hogge, Provincial Sanitary Engineer, were members.

REGULATIONS PASSED OR AMENDED DURING THE YEAR

- O.C. 719-57 approved regulations respecting the fluoridation of water supplies. These regulations became necessary as certain communities approved by-laws under The Public Health Act to add fluorides to their water supplies. The regulations require the submission of plans and specifications to the Provincial Board of Health. They also outline the duties of the operating authority, the controls which are to be applied to the treatment process, the records to be kept and the returns and the reports which are to be submitted to the Provincial Board of Health.
- O.C. 1719-57 approved new regulations governing barber shops and beauty culture parlours. These regulations replaced former regulations governing barbers, barber shops and barber training schools. The new regulations are more in keeping with the improved methods and materials now available to these trades. They cover such subjects as customer and attendant hygiene and the sanitary protection of utensils, equipment and supplies.
- O.C. 1720-57 approved new regulations governing cemeteries and burial grounds. These replaced former regulations. The new regulations clarify the procedure leading to approval by the Provincial Board of Health of a cemetery location, provide requirements concerning the care of cemeteries, particularly in respect to fences and entrances, and change the minimum required depth to the top of a casket from five feet to three feet. They also bring up to date the rules governing the responsibility for the burial of indigents so that the rules are the same as in various Statutes governing the care of indigents.
- O.C. 1722-57 approved amendments to the regulations respecting nuisances and general sanitation. These amendments clarify the responsibility of Local Boards of Health and Municipal Governments in respect to abating a nuisance when the person responsible cannot be found.
- O.C. 1723-57 approved an amendment to the regulations governing restaurants. This amendment clarifies the requirements concerning manual dishwashing methods. The regulations had previously required the use of three sinks but had permitted the use of two sinks under certain circumstances until January 1st, 1956. The regulations were amended to delete all references to the use of two sinks.

O.C. 1721-57, 1898-57, 1941-57, 1943-57 and 1944-57 approved amendments to renumber the regulations respecting industrial poisons, the regulations relating to the transportation of dead bodies, the regulations governing the use of hydrocyanic acid gas, the regulations relating to industrial and construction camps and the regulations respecting swimming pools and bathing places. No other changes were made in these regulations. This renumbering was carried out in preparation for the filing of the Provincial Board of Health regulations as required by The Regulations Act.

During the year a few cases of persons who were suffering from tuberculosis in an infectious form and who were refusing treatment were drawn to the attention of the Board. After proper investigation of the cases, the Board issued two orders under the provisions of the communicable disease regulations covering removal of these persons to sanatoria for treatment. This represents a considerable decline in the number of such orders (and conversely a considerable improvement in the conditions making such orders necessary) when compared with the 11 orders issued in 1956 and 17 in 1955.

During the fall of the year health authorities throughout the province co-operated in an inoculation program against Asiatic flu. Priority was given to protection of those engaged in essential services. The program went forward under the general supervision of the Provincial Board of Health.

Sixteen persons were appointed to be Executive Officers of the Provincial Board of Health during the year. These appointees were employees of the Provincial Department of Health or were Municipal Nurses. During the same period 14 cards were returned and at the year's end 37 such authorizations were in effect, there having been 35 at the end of 1956.

During the year 87 nurses who had been appointed by Local Boards of Health to be Executive Officers were issued authorizations by the Provincial Board certifying them to be capable of performing inoculations and vaccinations in accordance with Section 41 of The Public Health Act. Forty-four authorizations were returned and at the year's end 127 were still in effect. Eighty-four had been in effect at the first of the year. In part, the increase follows the extension of health services in the province as it includes nurses appointed to new positions.

The sanitation of the Province's major rivers continued to receive the Board's attention during 1957. There were no spectacular developments in this program during the year as the steps taken in earlier years continued to control the situation. Some attention was directed to the Athabasca River which, during the year, began to receive industrial wastes.

The Board gave attention to possibilities of air pollution in various areas of the Province affected by industrial growth. An increasing number of complaints from the public indicate a growing concern in this.

The foregoing constitutes a brief review of some of the major activities of the Provincial Board of Health during the year.

Amongst other matters receiving the attention of the Board were problems concerning the design of restaurants, the parking of trailer coaches on private land and the marketing of cut-up poultry. In these and other matters the Board gave direction and co-ordinated the activities of the various Divisions of the Department and Local Boards of Health in a broad program to improve the health of the people of the Province.

LEGISLATION PASSED DURING THE YEAR

Health Unit Act Amendment Act (Chapter 27)

This Act amended The Health Unit Act, being chapter 139 of the Revised Statutes of Alberta, 1955.

By an amendment to section 7, clause (b), a member of the board may be paid twelve cents per mile for each mile travelled by car upon approved health unit business.

Section 11, subsection (1) was amended to allow the appointment of an additional full-time nurse when there is a vacancy on the staff of a full-time medical officer, and to permit the employment of part-time stenographer-technicians.

This Act came into force on July 1, 1957.

Hospitalizations Benefits Act (Chapter 30)

This Act is cited as The Hospitalization Benefits Act.

It introduces a new hospitals benefits plan which will replace the plan presently in operation throughout most of the Province.

Hospital benefits under this Act will consist of standard ward hospitalization as defined in a hospital of the person's choice.

This Act comes into force on April 1, 1958.

Hospitals Act Amendment Act (Chapter 31)

This Act amended The Hospitals Act, being chapter 147 of the Revised Statutes of Alberta, 1955.

Sections 7 and 8 were amended to increase the maximum amount for which a local authority is liable for hospital treatment of an indigent person from six hundred dollars to eight hundred dollars per year.

This Act came into force on July 1, 1957.

An Act to Amend an Act to Incorporate Medical Services
(Alberta) Incorporated (Chapter 48)

This Act amended An Act to Incorporate Medical Services (Alberta) Incorporated, being chapter 88 of the Statutes of Alberta, 1948, and gives it a short title. Hereafter the Act may be cited as The Medical Services (Alberta) Incorporated Act.

Section 4 was amended by adding a new clause that empowers Alberta Medical Services to enter into reciprocal arrangements with any similar association or body in any other part of

Canada or the United States for the purpose of providing adequate medical care to persons covered by contract with either party.

This Act came into force on April 11, 1957.

Municipal Hospitals Act Amendment Act (Chapter 59)

This Act amended The Municipal Hospitals Act, being chapter 216 of the Revised Statutes of Alberta, 1955.

Section 10 was amended by striking out subsection (3) and substituting subsections (3), (4) and (5) which change the amounts of and the basis for allowances to the provisional board.

Section 60 was amended. Subsection (1) was amended to enlarge the franchise for the election of members of hospital boards previously confined to ratepayers, and will permit the use of municipal voters' lists in compiling the hospital voters' list, as the qualifications are similar.

The following changes were made in connection with the change to section 60. Forms A, B and C in the Schedule were amended to remove from the forms references to persons who would vote not as ratepayers but as the spouse or relative of a ratepayer. Form D in the Schedule was struck out and a new Form D was substituted. Section 55, subsection (2) and section 60, subsection (3), clause (b) were amended to remove the references to either of the declarations set out in Form D as there is now only one declaration in Form D. Section 63 was amended by striking out subsection (4). These amendments will make proprietary electors within the meaning of the municipal Acts the eligible voters upon the establishment of a hospital scheme.

Section 80 was amended to change the amounts of and basis for allowances to the board of a hospital district.

Section 83 was amended by striking out subsections (1), (2) and (3). The substituted provisions will enable the auditor to use standard auditing methods in auditing the records of a hospital district.

This Act came into force on July 1, 1957.

Public Health Act Amendment Act (Chapter 69)

This Act amended The Public Health Act, being chapter 255 of the Revised Statutes of Alberta, 1955.

Section 7, subsection (1) was amended by empowering the Board of Health to make orders and regulations governing the location, construction, maintenance and operations of crematoria and the controlling of radiation hazards.

Section 34 was amended by making the grants available to cities having a population in excess of thirty thousand.

This Act came into force on July 1, 1957.

DEPARTMENT OF PUBLIC HEALTH

TATE OF THE PARTY	ABITO	EXPENDITURE	FOR	FISCAT.	VEAR.	ENDING	MARCH	31.	1958

102		Salaries	Expenses	Revenue
			\$ 898.70	\$
601	Administration - General\$	75,606,63	4.922.30	1,021.64
602	Administration - General	15,000.05	6.398.12	2,022.00
618	Administration - Postage		0,000.22	***************************************
603	Administration	85,179.86	14,716.05	*************
	Grants and Services		14,870,583.49	45.00
646	Hospital Construction Grants		1,302,088.68	270,356.84
	Communicable Diseases	8,237,44	113,755.36	***************************************
605-1 605-2	Sanitary Engineering	28,749,44	11,093.21	2,111.40
606	Municipal Nursing	7,635.39	134,402.39	48,298.31
607	Bureau of Vital Statistics	69,466.29	20,318.06	122,206.46
609	Insulin		12,509.55	
610	Social Hygiene	63,317.76	13,779.98	31,097.47
626	Public Health Laboratories		349,079.66	56,079.88
631	Poliomyelitis		643,158.13	40F 0F0 F0
633	Cancer Services	189,863.91	485,492.67	195,053.59
638	Civil Service Nurse	5,874.39	1,980.74	***************************************
639	Public Health Education	15,830.83	6,881.25	***************************************
640	Entomology	9,326.71	1,792.21 667,346.09	249,369,45
641	Health Units	10,610.93	73,775.03	206.810.15
643	Nursing Aides Act	27,092.87 65,510.20	1,523,818.97	1,045,162.32
645	Health Services - Extension Program		73,673.00	1,040,102.02
648	Grants for Public Health Services		117,000.00	
649	Alcoholism Foundation of Alberta	54,257.09	25,409.91	38,205.93
651	Cerebral Palsy Clinics	11.862.37	7,998.41	
652	Aruntus Services	22,002.01	*,***	
	Division of Men	tal Health		
			10 001 00	E4 0E0 70
622	Director's Office and Guidance Clinics	88,436.77	12,391.92	54,850.79
612-1 613-2	Provincial Mental Institute, Edmonton	1,598,644.49	434,113.65	536,133.41
612-3		1,484,670.14	496,285.94	416,590.05
612-4	Provincial Auxiliary Mental Hospital,			
0.120	Claresholm	57,298.05	27,918.18	28,945.95
612-5	Provincial Auxiliary Mental Hospital,			40 007 17
	Raymond	78,914.56	25,608.87	40,827.17
612-6	Rosehaven, Camrose	469,720.68	125,007.75	295,371.08 205,218.34
614-1	Provincial Training School, Red Deer	848,692.43	252,265.07 75,274,75	4,217.45
614-2	Deerhome, Red Deer	74,184.75	15,214.15	4,211.40
		1		
	Division of Tuberc	mosis Control		
004 1	Director's Office and Clinics	45,718.56	69.339.21	6,463.54
604-1 604-2	Baker Memorial Sanatorium, Calgary	727,287,35	232,245.08	285,720.35
604-2	Aberhart Memorial Sanatorium, Edmonton	711.195.59	180,930.08	191,329.25
004-0	-			
	\$	6,926,554.15	\$22,414,252.46	\$ 4,331,485.82
				200 040 000 04
Total	Expenditure-Public Health Department			\$29,340,806.61
Less:	Public Health Revenue			4,331,485.82
	Expenditure—Department of Public Health			\$25,009,320.79
Net E	xpenditure—Department of Fublic Health			

The Vital registrations during the year were as follows:

Births	 35,719
Marriages	 10,117
Doothe	 8,255

The population for 1957 was officially estimated as 1,160,000 and, therefore, the following rates have been recorded:

Year	No. of Births	Birth Rate	No. of Marriages	Marriage Rate	No. of Deaths	Death Rate
1952	29,105	30.0	9,514	9.8	7,345	7.6
1953	31,376	31.3	10,126	10.1	7,646	7.6
1954	33,593	32.3	9,960	9.6	7,520	7.2
1955	34,357	32.2	9,844	9.2	7,956	7.5
1956	34,951	31.1	9,965	8.9	7,786	6.9
1957	35,719	30.8	10,117	8.7	8,255	7.1

On the whole these figures are good. The total number of births is up although the birth rate is down slightly. The natural increase (excess of births over deaths) was 27,464.

Alcoholism

The Alcoholism Foundation of Alberta is a voluntary society supported during the fiscal year 1957-58 by the Province of Alberta by a grant of \$117,000.00. This was approximately 80% of their income.

The Foundation recognizes alcoholism as a treatable illness and a public health responsibility and is, therefore, concerned with problem drinking. Its aim is to prevent problem drinking through education, treatment and research. In carrying out this program 569 persons were treated in 1957, bringing the total treated to 3,082 since the inception of the service, of which 53% are reported as having achieved more or less recovery.

Asiatic Influenza

Early in 1957 a new type of influenza virus was observed in Eastern Asia. Since it was known that short-term protection can be achieved against older strains of influenza by inoculation with a vaccine, it was assumed that this would be true also for this new type. Therefore, the Provinces of Canada, assisted by the Government of Canada, arranged for the large-scale production of this new vaccine.

This vaccine was used in Alberta for the protection of a selected group of workers whose work was considered of great importance to the community. The results of this effort were not clear since the disease reached the Province while the inoculating was being done. A special research project was carried out at the Provincial Mental Institute, Edmonton, where a comparison was obtained between persons inoculated with the Asian Influenza Vaccine and persons inoculated with a "placebo". This experiment showed a fairly high degree of protection from this single dose, at about 60%.

On the whole, the epidemic as it appeared in Alberta was mild and the number of deaths was small. Deaths from influenza and pneumonia in Alberta during 1956 and 1957 were as follows. This relates to about 200,000 cases.

	1956	1957
Influenza	35	135
Pneumonias	326	352

A few deaths were observed where a very virulant staphylococcal pneumonia developed as a complication of influenza.

Hospital Insurance

Hospital Insurance has been under study in Alberta, periodically, for many years. 1956 and 1957 saw a revival of this work due to specific proposals that the Federal Government planned to come into this field with grants-in-aid. The work involved in Alberta planning was so great that effective July 1st, 1957, the former Division of Hospital and Medical Services was split to form a Division of Hospital Services and a Division of Medical Services. Reports from each of these Divisions appears herewith and indicates the service covered under each of the new Divisions.

The Division of Hospital Services is proceeding with the development of a hospital insurance program for Alberta. It is anticipated that this will go into effect early in 1958, whether the Federal Government comes into the picture or not.

Fluoridation

In 1956 The Public Health Act was amended to permit the fluoridation of communal water supplies provided it was approved by a plebiscite at which over two-thirds of those voting, vote in favour. The Town of Fairview gave the necessary authority that fall and the service was to be installed in 1958 as Alberta's first.

In the fall of 1957 the Cities of Red Deer and Grande Prairie voted in favour of the scheme, while votes in the Cities of Edmonton, Calgary, Lethbridge and Medicine Hat failed to obtain the necessary two-thirds majority.

Perinatal Mortality Studies

A special committee of the College of Physicians and Surgeons, using funds provided under the Child and Maternal Health Grant, has continued the study of perinatal deaths. In 1957 this covered 846 deaths, including 397 stillbirths and 449 deaths of infants over 1,000 grams (2 lbs. 3oz.) who died within one week of birth. In addition, there were 116 deaths among babies under 1,000 grams.

This year's report shows a slight decrease in stillbirths which has been offset by an increased number of deaths in the first week, leaving the total perinatal death rate practically level for the past three years. The chief cause of death in both the still-births and among those dying in the first week has been prematurity, and during the three years there has been a slight increase in the number of deaths from this cause.

This committee has regularly recommended that premature cases should be transferred to larger hospitals and, if possible, the case should be in the larger hospital before the birth occurs. The statistics show that this recommendation is realistic. It is also recommended that in cases where an exchange transfusion appears likely, that the case should be transferred for delivery to a point where such a transfusion is possible.

It is anticipated that this study will continue.

Change of Minister

In September, 1957, the Honourable Dr. W. W. Cross resigned as Minister of Health after 22 years in that position. After the establishment of the Province in 1905, the health services were under different Ministers—mostly the Minister of Agriculture. From 1919 to 1935 four different Ministers served as Ministers of Health in the newly established Department of Public Health.

At the time of Dr. Cross's retirement, a dinner was put on by the senior members of the Department staff. At this time a paper was read outlining the development of the Department during his term of office in considerable detail. This paper was later published in the February, 1958, issue of the Alberta Medical Bulletin.

In September, 1957, Dr. J. Donovan Ross was appointed Minister. He brings to the position knowledge gained from the private practice of medicine in the City of Edmonton and from an active interest in medical and hospital economics.

Respectfully submitted,

A. SOMERVILLE, B.A., M.D., D.P.H., Deputy Minister of Health.

DIVISION OF LOCAL HEALTH SERVICES

E. S. ORFORD SMITH, M.B., D.P.H., Director

The Division of Local Health Services includes the following sub-divisions, each under the supervision of its own director:

- (1) Communicable Diseases,
- (2) Health Units,
- (3) Public Health Nursing,
- (4) Health Education,
- (5) Nutrition Services, and
- (6) Entomology.

The services represented in this amalgamation correspond closely, although not completely, with those which are the concern of local health authorities.

The Division offers consultant services to public health workers in the field, and, in collaboration with other Divisions, undertakes the orientation of Medical Officers of Health, Public Health Nurses and Sanitary Inspectors newly appointed to the Province.

The reports which follow provide a more detailed account of the functions and responsibilities of the individual sub-divisions, and of their achievements during 1957.

COMMUNICABLE DISEASES

E. S. ORFORD SMITH, M.B., D.P.H., Director

This branch of the Division of Local Health Services is responsible for:

- (1) The collection and transmission of information concerning the morbidity and mortality of communicable diseases;
- (2) The distribution of immunizing antigens and sera;
- (3) Supervision of the utilization of those immunizing agents which are available only in limited quantities, and
- (4) Consultation regarding the interpretation and application of communicable disease regulations.

POLIOMYELITIS

The incidence of poliomyelitis in 1957 was the lowest for twelve years. Only 65 cases were reported, of which 34 were paralytic and 31 non-paralytic. In the absence of confirmation by virus identification, it is quite possible that some of the cases reported as non-paralytic poliomyelitis may actually have been instances of Coxsackie or ECHO virus infection. The continued decline in

the number of polio cases increases our assurance that poliomyelitis vaccine is really effectual.

By August it was found possible to extend the vaccination program to include infants from the age of six months upwards, all pre-school and school children, all expectant mothers, school teachers up to age 40 and parents up to age 40 having children of pre-school age. Finally, in December, a further extension of the program was authorized which enabled local health authorities to offer the vaccine to all persons up to 40 years of age.

TYPHOID FEVER

Sixteen cases of typhoid fever were reported during 1957. Six of these occurred during the early part of the year, and were traced to the consumption of raw river water drawn through the ice from the North Saskatchewan River in the neighbourhood of Buck Creek and Drayton Valley. The only place where the river could have been contaminated by sewage was at Rocky Mountain House, some 70 miles upstream. Oil workers in the area were warned of the danger of drinking river water which had not been chlorinated or boiled, and T.A.B. vaccine was made available to them by the Municipal Nurse at Breton, who served Buck Creek , and by the Stony Plain Health Unit, which was responsible for the Drayton Valley area.

DIPHTHERIA

There were 39 cases of diphtheria in 1957, more than double the number reported during 1956, and the highest on record for eight years. Nearly half of these cases developed in the St. Paul area before the establishment of a Health Unit, and four out of the six deaths, including three in one family, occurred in the same district. Even in the City of Edmonton a mother and two of her children were affected by the disease. These facts emphasize once again the need for achieving and constantly maintaining the highest possible level of immunity among children.

MEASLES

The number of measles cases was 12,337 six times the number reported for 1956. The unusually high morbidity rate has never during the last twenty years been exceeded, and only once, in 1949, nearly equalled. The occurrence of sixteen deaths, moreover, serves as a reminder that this is still one of the more serious diseases of childhood, and one against which the protection of very young or debilitated children should always be regarded as of vital importance.

LEPROSY

Two cases of leprosy were reported during the year, the first since 1953. One of these was a Chinese woman of 51 who had arrived from China three years previously, and who had had signs of the disease for several months. The other was an Ontarioborn woman of 58 who had lived in Alberta for 52 years, had never been out of Canada, and who had apparently been infected for many years.

EPIDEMIC INFLUENZA

Four cases of Asiatic influenza were identified during the last two weeks of August. The first of these was an Air Cadet at Olds who had just returned from a trip to Denmark and Germany, two were Boy Scouts returning from a Jamboree in England who showed symptoms upon their arrival at Edmonton Airport, and the fourth was a Girl Guide at Lethbridge who had just arrived home from a camp in Ontario. No secondary cases were reported, and it is possible that the prompt isolation of these four cases may have delayed the appearance of the disease in epidemic form for one or two weeks, although certainly not for longer.

Epidemic outbreaks were first reported among Army personnel at Calgary during the second week of September, and among students of a residential college at Lacombe the following week. Between the middle of September and the middle of November reports of epidemic disease were received from almost every part of Alberta, and estimations of the local incidence varied from 10 per cent to 90 per cent. It is conservatively estimated that about 40 per cent of the total population of the Province was affected by the disease, but the great majority of cases were mild and the case fatality rate was less than one-fortieth of one percent.

With the object of maintaining essential community services, a monovalent vaccine prepared from the Asiatic influenza virus was distributed to local health authorities for the immunization of persons in specified priority categories. Since the supply of vaccine was small and had to be stretched as far as possible, an intradermal dose of 0.1 c.c. was recommended in place of the subcutaneous dose of 1 c.c. advocated by the Connaught Laboratories. The prior arrival of the epidemic, however, made it impossible to assess the value of the vaccine administered in this manner.

INFLUENZA VACCINE FIELD TRIAL

An evaluation of Asiatic influenza vaccine was successfully undertaken with the assistance of the medical and nursing staff at the Provincial Mental Institute. A special allocation of material for study purposes was arranged by the Epidemiology Division of the Department of National Health and Welfare, and was supplied by the Institute of Microbiology.

Some 1,035 patients participated in the trial. Each received a subcutaneous injection of 1 c.c. of either vaccine or a placebo of similar physical appearance. The two substances were labelled A and B, and their respective identities were known only to the labeller, who did not take part in the conduct of the trial. Inoculations were completed by the end of the first week in October, before any cases of influenza occurred at the hospital, and observation was maintained until the end of the year.

Of the 519 patients who received vaccine, clinical symptoms of influenza were noted in 30, or 5.8 per cent, while of the 516 who received placebo, symptoms were observed in 75, or 14.5 per cent. The incidence of influenza in the vaccinated group was therefore two-fifths or 40 per cent of the incidence in the control

group, from which it is concluded that a single subcutaneous dose of 1 c.c. of vaccine resulted in a protection rate of 60 per cent.

The total cost of biological products provided for the control of communicable diseases was \$314,020.00.

TABLE 1 NUMBER OF CASES OF COMMUNICABLE DISEASES REPORTED IN THE YEARS 1956 and 1957

	1956	1957
Acute Anterior Poliomyelitis	81	65
Diphtheria	19	39
Dysentery	1,109	70
Food Infections	17	14
Leprosy		2
Measles	2.047	12.337
Meningitis	2	6
Paratyphoid Fever	7	2
Rocky Mountain Spotted Fever		
Rubella	994	8.676
Scarlet Fever and Septic Sore Throat	642	774
Smallpox		
Tetanus	******	1
Tuberculosis—Pulmonary	1,035	1,216*
Tuberculosis—Non-Pulmonary	98	91*
Typhoid Fever	22	16
Trachoma	1	
Whooping Cough	547	889
Undulant Fever	1	5

NOTE: *These figures include ''inactive'' cases.

New active T.B. (pulmonary) cases for 1957—479;
active (non-pulmonary) new cases for 1957—86.

TABLE 2

DEATHS ASCRIBED TO COMMUNICABLE DISEASES IN THE PROVINCE OF ALBERTA FOR THE YEARS 1956 AND 1957

	1	1956	19	957
	Total Deaths	Rate per 100,000 of population	Total Deaths	Rate per 100,000 of population
Acute Anterior Poliomyelitis	3	0.3	6	0.5
Diarrhoea of the Newborn)	64	5.7	59	5.1
Diphtheria	Õ	0.0	6	0.5
Influenza	35	3.1	135	11.6
Measles	2	0.2	16	1.4
Meningococcal Meningitis	4	0.4	10	0.3
Pneumonia (all forms)	326	29.0	352	30.3
Scarlet Fever and Streptococcal	320	29.0	552	30.3
Sore Throat	0	0.0	1	0.1
Smallpox	0	0.0	0	0.0
Tuberculosis (Pulmonary)	36	3.2	60	5.2
Tuberculosis (Other)	7	0.6	8	0.7
Typhoid Fever	i	0.1	2	0.2
Paratyphoid and other Salmonella	_	0.2	~	V.2
infections	1	0.1	1	0.1
Undulant Fever (Brucellosis)	i	0.1	ń	0.0
Whooping Cough	3	0.3	1	0.3
whooping Cough	U	0.0	**	0.0

Population of Alberta in 1956 1,123,116 Population of Alberta in 1957 1,160,000

	II CEX	-						MONTHS	SH.					=			ACES	U.		=	
	SES							- Intorna	-	-	-	-	-	İ	-	-	-	, -	-		
	Male	Female	Jan.	Feb.	Mar.	lingA	May	nur	luly	.gnA	Sept.	JoO.t.	.voV	Dec.	1-0	₹- Т	₽1- 9	61-91	Z0-0VeT	on 98A betate	TATOT
	-	=				-		DIPHTHERIA	HERIA	CASES	ω.	-	-	=	-	-		_	-	=	
Edmonton Calgary Urban Rural	121	4311	0 17	4	61	1 1 2	H			HH 00	m	न	7 7			8 8 8			50		23 2 2 2 3
Total	21	18	12	4	2	- 83	Ħ	-	•	10	- co	-	-8		T	11	18		- 60	===	39
							DI	DIPHTHERIA CARRIERS	RIA C	ARRIE	RS										
Edmonton Urban Rural	121	13			e	# 111				101		МH	13			C . W	13.2 00		H	10	15 24 24
Total	18	23			_ m	11				10	1	-m	14	===	:	10	253		- -		41
							DY	DYSENTERY (BACILLARY)	RY (B	ACILL	ARY)										
Urban Rural	33	00 4	101	ਲ ਜ	F	8	17			00 01	w !			П	9	NH	460	11	32	77	32
Total	22	12	7	4		8	18			10	· 60				9	-m	1		20	-8-	69
							DI	DYSENTERY (AMOEBIC)	SRY (A	MOEB	IC)										
Calgary					1	1	1		-1		į	1		1	:	:	1		Ħ	===	7

								ENCE	ENCEPHALITIS	TIS											
Edmonton Urban Rural	1 2	SHH					 	111	-111	нна	T				111	ਜ	-			=======================================	2110
Total	- 24	4								4	- -			===			TI TI		-4		9
					Q.			ERY	ERYSIPELAS	AS						And the same					
Rural		2										F			1			1		===	က
					н	FOOD 1	INFECTIONS	TIONS	SAND	OTNI	AND INTOXICATIONS	IONS									
Calgary Urban Rural	104	100				7	, m		7					m	ਜਜ				В Н		7010
Total	00	9				-2			-2-	:					-64	-27			4	· m	14
								LE	LEPROSY	2											
Lethbridge Rural							11			HH									нн		
Total		-83								2									-62	-	2
					-		-	POLIC	POLIOMYELITIS	ITIS											
Edmonton Calgary Lethbridge Urban Rural	122	47	 8	п па		2 12		ПНН	00 Hm	HW 114	w4 wH	11 62			HH	44 00	20 12	-1 4	15 82		8 119 271 177
Total	38	22	-2	4		-12		-23		19	===	10	- 0		-27	17	50	- 22	27		65

TABLE 3: COMMUNICABLE DISEASE CASES REPORTED IN 1957 BY SEX, AGE AND MONTH OF REPORTING (Continued)

Mar. Mar. Pop. 11	Temale 16 16 3 17.7 4 2 2 3 3 3 3 3 3 3 3	Female F	Female F	Female F	Poliony Elitties Pemale Poliony Elitties Pemale Poliony Elitties Poliony Elit	Fe En Rai. April	POLIOMYELITIS (PARALYTIC CASES)	Fe E E E E E E E E E E E E E E E E E E	Politomyelities Politomyel	POLIONYELITIS (PARALYTIC CASES)	Politomyelitis (Paraly Politomyelitis (Paraly Politomyelitits (Paraly Paraly Paraly Politomyelitits (Paraly Paraly	POLIOWYPELITIS (PARALYTIC CASES)	MONTHS MAEXILES MAESTLES MONTHS MO
122 44	Teb. 122 244 129 200 3894 492 111 129 389 6161 888	Mar. Mat. Mat. Mat. Mat. Mat. Mat. Mat. Mat	Mar. Mat. Mat. Mat. Mat. Mat. Mat. Mat. Mat	Mar. Mat. Mar. Mat. POLIOMYELITIS Teeb. Mat. April 1	Dan Months Mont	MONTHS MONTHS MONTHS MONTHS MONTHS MAILY MONTHS MO	MONTHS MONTHS MONTHS MONTHS Mat. April April 1 2 2 2 8 4 10 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Dollowyelities See 249 243 116 25 24 243 256 243 244 244 2	POLIOMYELITIS (PARALYTIC CASES)	POLIOMYELITIS (PARALYTIC CASES)	MONTHS MONTHS MAET. M		
24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	38.90 4.32 1.1	MON Mar. POLIOMYELITIS 443 443 444 444 444 444 444 4	MON Mar. Afeb. April 1	Mar. Aptril Aptril 1	Mar. April April 1	MONTHS Med. Age. MONTHS Mai. April 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MONTHS MONTHS MONTHS MONTHS MONTHS POLIOMYELITIS (PARALYTIC CASES) POLIOMYELITIS (NON-PARALYTIC CASES) 1	MONTHS MONTHS MONTHS April April April April April April April April April POLIOMYELITIS (PARALYTIC CASES) POLIOMYELITIS (NON-PARALYTIC CASES) April	MONTHS Mat. Appril	Mar. Months Months Mar. Mar	MONTHS MONTHS MONTHS MONTHS MONTHS MONTHS MONTHS MONTHS MONTHS MARY. MEASILES 416 1285 1168 538 65 54 13 16 15 15 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15		
.rsM	.rsM	Mar. POLIOMYELITIS POLIOMYELITIS 1285 1168 586 220 42 127 238 220 42 127 23 293 441 231 335 128 616 838 616 838 616 838	Mar. POLIOMYELITIS POLIOMYELITIS 1285 1168 586 220 42 127 218 289 491 211 345 1188 616 838 616 838 616 838 616 838 616 838 616 838 618 838 616 838 618 818 818 818	Mar. POLIOMYELITIS POLIOMYELITIS 1285 1168 586 220 42 127 218 586 220 42 127 231 233 431 233 431 233 431 233 431 233 431 233 431 233 431 233 431 233 431 233 431 233 431 233 431 233 431 233	Mar. POLIOMYELITIS POLIOMYELITIS 1285 1168 586 220 42 127 218 345 128 518 538 616 538 616 538 617 700 700 700 700 700 700 700 700 700 7	MONTHS MONTHS MONTHS MONTHS MONTHS MONTHS POLIOMYELITIS (PARALYTIC CASES) POLIOMYELITIS (NON-PARALYTIC CASES) MESSEE 240 92 38 248 116 7 MEASLES MEASLE	Months M	MONTHS M	MONTHS MONTHS April April April POLIOMYELITIS (PARALYTIC CASES) POLIOMYELITIS (NON-PARALYTIC CASES) POLIOMYELITIS (NON-PARALYTIC CASES) April 1	MONTHS MONTHS April Ap	MONTHS Months Months Months Months Appril MONTHS		
lingA S	IIrqA S	Moy May June June June June June June June June	Moy May June June June June June June June June	May Molium April 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	May POLIOMYELITIS 11	April	MONTHS April Apr	MONTHS M	MONTHS M	MONTHS MONTHS MONTHS MONTHS MONTHS POLIOMYELITIS (PARALYTIC CASES) POLIOMYELITIS (NON-PARALYTIC CASES) MESSEE 240 92 23 20 49 21 35 50 49 11073 MEASLES MONTHS MONTH	MONTHS MONTHS MONTHS		
	OMYEII MAN	May June June June June June June June June	May June June June June June June June June	MAYELITIS 2930 OMYELITIS 2931 2833 8435 1288 6333 8435 1289	MAYELITIS 2930 OMYELITIS 2930 2348 833 8348 838 838 838 838 838 838 838	MONTHS June	MONTHS MONTHS MONTHS MONTHS MONTELITIS (PARALYTIC CASES) MASSLES MEASLES MEASLES MEASLES MEASLES MONTELITIS MEASLES MEASLES MEASLES MONTELITIS MEASLES MEASLES MEASLES MEASLES MEASLES MONTELITIS MEASLES MEAS	MONTHS MONTHS MONTHS MONTHS MONTELITIS (PARALYTIC CASES) OMYELITIS (NON-PARALYTIC CASES) MEASLES 586 220 2 2 8 4 10 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MONTHS MONTHS MONTHS MONTHS MONTHS MONTHS MONTELITIS (PARALYTIC CASES) MONTELITIS (NON-PARALYTIC CASES) MEASLES MEASLES MEASLES MONTELITIS (NON-PARALYTIC CASES) MEASLES MEASLES MONTHS MONTELITIS (NON-PARALYTIC CASES) MANTELITIS (NON-PAR	MONTHS MONTHS MONTHS MONTHS MONTHS MONTHS MONTELITIS (PARALYTIC CASES) MONTELITIS (NON-PARALYTIC CASES) MEASILES MEASILES MEASILES MONTELITIS (NON-PARALYTIC CASES) MEASILES MEASILES MEASILES MONTELITIS (NON-PARALYTIC CASES) MANTELITIS (NON-PARALYTIC CASES) MEASILES MEASILES MEASILES MONTELITIS (NON-PARALYTIC CASES) MANTELITIS (NON-PARALYTIC CASES) MEASILES MEASILES MEASILES MANTELITIS (NON-PARALYTIC CASES) MANTELIT	MONTHS MONTHS MONTHS MONTHS MONTHS MONTHS MONTELITIS (NON-PARALYTIC CASES) MEASLES MEASLES MEASLES MEASLES MONTELITIS (NON-PARALYTIC CASES) MEASLES MEASLES MEASLES MEASLES MEASLES MONTELITIS (NON-PARALYTIC CASES) MEASLES MEASLES MEASLES MANTELITIS (NON-PARALYTIC CASES) MEASLES MEASLES MANTELITIS (NON-PARALYTIC CASES) MEASLES MEASLES MEASLES MANTELITIS (NON-PARALYTIC CASES) MEASLES MEASLES MANTELITIS (NON-PARALYTIC CASES) MANTELITIS (NON-PARALY		

RUBELLA	1329 2172 1700 1139 1139	9198		202 1127 18 7 80 43 347	774		141	1 16		===		2	-	
	2 44	93	a a a a a a a a a a a a a a a a a a a	433	20		H	T.		1				
	448 88 88	251		101 22 21 551	82		- 00			Ħ		Ħ		
	69 133 133 130	468		222169	43		НН	-8						
	948 1995 1404 679 1609	6635		130 88 88 9 37 137	401		(0)	3						
	234 94 107 235 384	1054		22 22 6 18 78	181		н							
	78370	175		1311112	121							1		
	32 32 33	163		11 s 15	42					7				
	31 12 22 35 10	06	T	E1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	49		Н							
	13 13 11 11 11 11 11 11 11 11 11 11 11 1	99	SORE THROAT	84 114	57		- H 60	-4-						
	32 32 177	81	SORE 1	204: 38	54				IERS					
	120 220 220 220 220	88	PTIC 8	P. 00 100	15	EVER			CARRIERS		,,C,,,			
	242	184	ND SE	282 78	45	TYPHOID FEVER			TYPHOID FEVER	- -	PARATYPHOID			
	192 141 17 79 276	705	FEVER AND SEPTIC	123 139	37	TYPE	H	п_	HOID 1		PARAT			
	338 329 95 227 376	1365	ET FE	23 2 2 3	-144		m	- m	TYPI			_H_		
	244 367 309 210 523	1653	SCARLET	20 50 11 13 143 143 143 143 143 143 143 143 1	96		H		-					
	163 523 821 245 582	2334	02	28 20 10 70	133		H 160	4-				H		
	107 404 403 137 362	1413				33 27 10 29	104		10	_22_				
-	310 46 42 79	534		38 3 3 3	86							1		
	737 1192 839 589 1263	4620		118 60 5 37 161	381		4	4=	=	H		2		
-	592 980 861 550 1073	4056		84 67 13 143 186	393		100	12	=			 		
RUBELLA	Edmonton Calgary Lethbridge Urban	Total		Edmonton Calgary Lethbridge Urban	Total		Edmonton Calgary Rural	Total		Calgary		Calgary		

Continued)
\mathcal{L}
F REPORTING
0
AND MONTH
A
, AGE
BY SEX,
BY
1957
Z
REPORTED
ASES
DISEASE
H
ABLE
SA
ij
5
M
COM
(-)
II
AB
ij

SEX	×						MONTHS	THS								AGES	SE		
Male	Female	Jan.	Feb.	Mar.	li1 qA	May	əunr		.gn¥	Sept.	Oct.	.voM	Dec.	τ-0	Ţ-Ţ	2-14	61-91	ZO-0Ver	tor 9gA betata
								TETANUS	us										
	H					H				-			===						
				PU	PULMONARY TUBERCULOSIS ACTIVE (NEW CASES)	RY T	JBERC	ULOSIS	ACTI	VE (NI	sw ca	SES)							
24 42 6 6 1 1 115 30	33 33 105 105 12	227 120	2307	47 554	28 111	40 H 8 6 6	1887	120	848 42H	H484675	<u> </u>	81 182	30	H	4 4 111	24 11 44 T	24 6 34 8	38 38 38	11 22 11 11 11 11 11 11 11 11 11 11 11 1
263	216	55	52	31	40	49	37	30	26	40	25	49	45	то	46	65	49	298	16
				-NON	NON-PULMONARY	NARY		TUBERCULOSIS		ACTIVE	(NEW	CASES							
181	9 10 10 26	9			H H R	8	w 670	1 0	HH	HH	N0 N0	0,0	нн н9	H	0 0 0	2 4 4	H	111 112 122 1	<u> </u>
33	53	- 00		9	20	4	14	2	2	9	-6	13		1	11	10	-4	57	-60

	Calgary Urban Rural	Total		Edmonton Calgary Urban Rural	Total		Lethbridge Urban Rural	Total
	наа	- ZC		58 117 123 115	413		1 0	- 77
				145 145 144 98	476		HH0	4
	ਜ	H		112	73			!
				113	53		14	4
]		, 3 3 8 6 2 3 3 8 6	- e2 - e2			
				100 110 110	36		п	-H
	111	-		10 37 10	- 83	MENIN		
UNDULANT FEVER	H		WHOO	218	29	MENINGOCOCCAL MENINGITIS		
ANT			PING (34.	84	CCAL		
FEVER	 	1	WHOOPING COUGH	96.55.9	145	MENIN	H	Ħ
				222 771 71	137	GITIS		
	-111			12821	182			
		-2		25	20			
		==		13 Tr or or	===			
				336	116		H	-п-
				53 74 113 98	338		нн	-2-
	 	_ _ _		71 149 105 88	413		10	-8-
					-2-			
				_ <u>H004</u> _	10			- -
	====	===		1 6 T	101		=====	===
	100	73		147 262 267 213	688		H H 4	9

TABLE 4

INCIDENCE OF SOME OF THE MORE SERIOUS COMMUNICABLE DISEASES
FOR THE TEN-YEAR PERIOD, 1948 to 1957

	FOR THE TEN-TEA	at 1 Bittob, 1546	10 1001	
Date	Population	Total Cases	Total Deaths	Mortality Rate per 100,000 of population
	DIP	HTHERIA		
1948 1949 1950 1951 1952 1953 1954 1954 1956 1957	846,000 871,000 895,000 939,501 970,000 1,002,000 1,039,000 1,066,000 1,123,116	52 59 13 2 2 11 28 35 10 19	6 12 1 1 1 3 2 1 0 6	0.7 1.4 0.1 0.1 0.1 0.3 0.2 0.1 0.0 0.5
	TYPHO	DID FEVER		
1948 1949 1950 1951 1952 1953 1954 1955 1956 1957	871,000 895,000 939,501 970,000 1,002,000 1,039,000 1,066,000 1,123,116	13 13 13 37 16 9 5 8 22 16	0 1 1 0 2 1 1 2 1 2	0.0 0.1 0.1 0.0 0.2 0.1 0.2 0.1
	POLIC	MYELITIS		
1948 1949 1950 1951 1952 1952 1954 1955 1956 1957	871,000 895,000 939,501 970,000 1,002,000 1,039,000 1,066,000 1,123,116	380 127 143 84 774 1,399 550 244 81 65	28 9 7 2 81 109 31 8 3 6	3.3 1.0 0.7 0.2 8.3 10.9 3.0 0.7 0.3 0.5
	WHOOP	ING COUGH		
1948 1949 1950 1951 1952 1953 1954 1955 1956 1957	846,000 871,000 895,000 939,501 970,000 1,002,000 1,086,000 1,123,116	1,178 98 120 827 1,105 1,085 842 791 547 889	11 5 3 7 8 12 7 1 3 4	1.3 0.6 0.3 0.7 0.8 1.2 0.7 0.1 0.3 0.3
	SCARL	ET FEVER		
1948 1949 1950 1951 1952 1953 1953 1954 1955 1956	871,000 895,000 939,501 970,000 1,002,000 1,039,000 1,066,000 1,123,116	248 865 2,309 2,304 3,829* 2,173* 1,363* 741* 642* 774*	0 0 0 6 2 3 0 1	0.0 0.0 0.0 0.6 0.2 0.3 0.0 0.1
*NOTE: Represents of	combined total of Scarle	t Fever and Strep	tococcal Sore	Throat.
	ME	CASLES		
1948 1949 1950 1951 1952 1953 1954 1955 1956 1957	895,000 939,501 970,000 1,002,000 1,039,000 1,066,000 1,123,116	2,086 9,179 1,538 8,204 3,515 7,260 3,769 7,136 2,047 12,337	7 19 8 12 7 8 6 24 2 16	0.8 2.2 0.9 1.3 0.7 0.8 0.6 2.3 0.2

HEALTH UNITS

E. S. ORFORD SMITH, M.B., D.P.H., Director

The Health Unit Act of 1951 has made it possible for cities with a population of less than 50,000, towns, villages, counties, municipal districts and improvement districts to group together and form a Health Unit. When a Health Unit is thus established, the Department of Public Health pays 60% of the approved operating expenses, while the local contributing authorities are required to provide the remaining 40% in proportion to their population. This arrangement has enabled the majority of municipalities in Alberta to provide themselves with a generalized public health service at a very economical cost.

Responsibility for the detailed administration of each Health Unit rests with the Health Unit Board, which consists of councillors from the major participating municipal bodies. The Division of Local Health Services exercises administrative supervision over Health Units and acts in an advisory capacity to Health Unit Boards.

Two new Health Units were established during 1957. The Edson Health Unit with headquarters at Edson brought much needed services to the oilfields around Drayton Valley and to the new industrial community at Hinton, while the North Eastern Alberta Health Unit with headquarters at St. Paul and suboffices at Bonnyville and Smoky Lake filled the needs of an important agricultural area. This raised the total number of Health Units to twenty, their names and locations being as follows:

Alberta East Central Health Unit, Stettler. Athabasca Health Unit, Athabasca. Barons-Eureka Health Unit, Coaldale. Chinook Health Unit. Fort Macleod. Drumheller Health Unit, Drumheller. Edson Health Unit, Edson. Foothills Health Unit, High River. Grande Prairie Health Unit, Grande Prairie. Jasper Place Health Unit, Jasper Place. Leduc-Strathcona Health Unit, Edmonton. Medicine Hat Health Unit, Medicine Hat. Minburn-Vermilion Health Unit. Vermilion. Mount View Health Unit, Calgary. North Eastern Alberta Health Unit, St. Paul. Peace River Health Unit, Peace River. Red Deer Health Unit, Red Deer. Stony Plain-Lac Ste. Anne Health Unit, Stony Plain. Sturgeon Health Unit, Edmonton. Vegreville Health Unit, Vegreville. Wetoka Health Unit, Wetaskiwin.

The services which are normally offered by a Health Unit include the prevention and control of communicable diseases, the local control of tuberculosis, maternal and child health programs, school health services, mental hygiene programs, health education and sanitary inspection services.

In order to provide these services, each Health Unit employs a Medical Officer of Health, a number of Public Health Nurses depending upon the population served, one or more Sanitary Inspectors, one or more Stenographer-Technicians and a part-time Secretary-Treasurer.

A Health Unit is also authorized to provide dental services for children up to age 16 years, and may employ a Dentist and a Dental Assistant for this purpose. Three Health Units had a dental program in operation by the end of the year.

The numbers of personnel which Health Units employed, or were entitled to employ, during 1957 and the two preceding years, are indicated in the following table:

Category	1957	1956	1955
Medical Officers	20 3	18	17
Public Health Nurses	98 26	82 24	70 19
Sanitary Inspectors Dental Assistants	3	1	1
Stenographer-Technicians Secretary-Treasurers	29 20	25 18	22 17

A conference of Board Members, Medical Officers of Health and Secretary-Treasurers of Health Units was held in the Department at the end of November, and afforded an opportunity for discussion of their problems. Among the resolutions passed at this conference and presented for the Minister's consideration was a proposal that the existing method of financial support for Health Units be replaced by a block grant system, and a recommendation that free penicillin be made available for the prevention of rheumatic fever in children with a previous history of the disease.

PUBLIC HEALTH NURSING

DOROTHY MCPHAIL, B.Sc., R.N., Director

The Public Health Nursing directorate of the Division of Local Health Services deals primarily with the counselling of public health personnel, and the supervision of municipal nurses. An important phase of the work has been the placing of staff in both health units, and municipal nursing stations. Seventeen nurses were appointed to municipal nursing services and twenty nurses were referred for appointment to health units.

Field trips were made by the Director to twenty-four nursing centers and fifteen health units. Several of these areas required two or more visits. The Nursing Director also met with the councils of seven Municipal Districts to discuss matters pertaining to the operation of the nursing services within their municipalities. Fourteen Municipal Nursing Service Societies held local meetings with the Director to discuss their responsibilities in relation to the nursing service.

Early in January 1957 the Fawcett Municipal Nursing Service closed permanently. The nursing district at Milk River was absorbed by the nursing service at Warner following the arrival of a resident doctor at Milk River. The nursing district at Lindale was likewise embodied into the nursing service at Breton, while the Hines Creek Municipal Nursing Service was reopened during the year after medical services in that locality had been discontinued.

Five nurses were granted leave of absence and professional training grants to allow them to register for the course in Public Health Nursing at the University of Alberta.

Out of twenty-nine municipal nursing services there are seven which have not yet been included in health units. Three of these are in the Special Areas, and it may be some years before these areas are ready for health unit services. The other four municipal nursing services, however, are situated in districts which are adjacent to established health units, and which could with advantage be included in these units at any time.

There were four municipal nursing stations vacant on December 31st, 1957, and seven others had been without municipal nursing services for short periods of time during the year. In all these instances the health unit staffs were able to maintain essential public health services.

A Municipal Nursing Service Association has been formed at La Crete in the district of Fort Vermilion, and a Nursing Service Committee was appointed to prepare plans for the building of a nurse's cottage.

New cottages have been built with the assistance of the Department of Municipal Affairs for the Municipal Nursing Services at Peers and Blueberry Mountain.

Staff Education

The Alberta Public Health Nurses were invited to attend the annual spring refresher course which was held in the conference room, Administration Building, Edmonton. The theme of the conference was Maternal and Child Health. Credit for the success of the conference is shared by many of the Senior Health Unit Nurses who gave generously of their time in presenting a series of lectures on Pre Natal Classes.

Eight Senior Health Unit Nurses attended a special ten-day course on Pre Natal Teaching, arranged and offered by the University School of Nursing and the Department of Extension, University of Alberta, Miss Aileen Hogan, Consultant, Maternity Nursing, Maternity Center Association, New York, was the guest lecturer. Several of these nurses have since commenced Pre Natal Classes in their own Health Units. With the aid of federal health grants the Child and Maternal Health Division of the Department of National Health and Welfare have supplied each of the twenty health units with teaching materials and reference books for this worthwhile project.

Lectures on the Services of the Department of Public Health were given by the Director to the Diabetic Association, the students of the Advanced Practical Obstetrics course, and the University of Alberta Public Health Nursing students.

Important visitors to the Province during 1957 were three members of the Department of National Health and Welfare, namely:

1. Miss Dorothy Percy. Chief Nursing Consultant. Department of National Health and Welfare.

2. Miss Esther Robertson, Nursing Consultant. Child and Maternal Health Division, Department of National Health and Welfare.

3. Dr. Jean Webb, Chief, Child and Maternal Health Division, Department of National Health and Welfare.

The statistical records attached to this report indicate the work accomplished by the municipal nurses throughout the Province.

NUMBER AND TYPES OF CALLS 29 MUNICIPAL NURSING DISTRICTS
(21 I.D.'s)

(8 M.D.'s)	
Number Treatment Consultations	26.378
Number Treatment Consultations Public Welfare Cases	857
Number Treatment Consultations Treaty Indians	479
Number Miscellaneous P. H. Consultations	15.141
Number Antepartum Consultations	1.111
Number Infant and Pre-School Consultations	9.202
Number Treatment Home Visits	4.318
Number Treatment Home Visits to Public Welfare Cases	611
Number Treatment Home Visits to Treaty Indians	171
Number Miscellaneous P. H. Home Visits	2.360
Number Communicable Disease Home Visits	947
Number T.B. Home Visits	443
Number V.D. Cases Found, Treatment, and Home Visits	840
Number Maternal Welfare Home Visits	329
Number Infant and Pre-School P. H. Home Visits	1.165
Number Deliveries	37
Number Abortions	17
Number Cases sent to Doctor or Hospital	2.103
Number Deaths	22
Number Cases Communicable Disease	2.570
Number Letters and Telephone Calls	9,810
Number Newspaper or Radio Publicity	204
Total Fees Collected	\$20,497.60
Cost of Drugs and Surgical Supplies	\$21,672.70

LECTURES, CLINICS, CLASSES—29 MUNICIPAL NURSING DISTRICTS (21 I.D.'s) (8 M.D.'s)

Number Lectures to Organizations	65
Number Films Shown	109
Number Generalized Clinics	511
Number Child Welfare Clinics	197
Number Home Nursing Classes	44
Number First Aid Classes	58

IMMUNIZATION WORK DONE AT OFFICE OR CLINICS 29 MUNICIPAL NURSING DISTRICTS (21 I.D.'s) (8 M.D.'s)

	Number of Doses
Number Immune Serum Globulin	285
Number Salk Vaccine	22,154
Number Diphtheria Toxoid	
Number Pertussis Vaccine	6,474
Number Tetanus Toxoid	
Number Smallpox Vaccine	
Number Typhoid Fever Vaccine	
Number Patch or Old Tuberculin Tests	3,495
Number Asian Flu Vaccine	2,052
Other Vaccines	49

SUMMARY OF SCHOOL REPORTS—29 MUNICIPAL NURSING DISTRICTS $(21~{\rm I.D.'s})\\ (8~{\rm M.D.'s})$

Number of Visits to Schools	403
Number of Students Inspected	4,409
Classroom Talks	145
Number of Consultations with Teachers	596
Number of Consultations with Parents	817
Number of School Follow-up Home Visits	58
Number of Pre-school Children Examined	643
Pre-school Home Visits	50
Tuberculosis Clinics Held	37
Tuberculosis Home Visits	12
	2,160
	1,971
Number of Doses of Smallpox Vaccine	316
Number of Doses of Whooping Cough Vaccine	935
Number of Mantoux and Patch Tests	3,120
	8,104
Number of Lectures	61
Number of Films Shown	37

HEALTH EDUCATION

C. C. Evoy, B.Sc., Director

The health and welfare of the children of this country is one of our major national interests. The eighteenth century has been called the age of man; the nineteenth century the age of woman, and the twentieth century the age of the child. Future historians writing of the present will identify this period in history with the interest, activities and accomplishments in the welfare, training and development of the child.

During the past three decades, school health work has progressed from the teaching of physiology and hygiene to where it is now recognized that the school is as much responsible for the preservation of the child's health and the development of his physical well-being as it is in the guidance and training of his mental faculties.

Urbanization, mechanization and lack of facilities for children and youth to participate in physical activities have created a situation which interferes with physical fitness. Added to this are the pressures of modern living which influence mental and emotional fitness. However medical science during this period has made tremendous advances which have provided better health for those who have learned to make full use of modern medicine.

On the basis of the foregoing it seems reasonable that the schools should have the following responsibilties:

"To establish a healthful and safe environment. This means a good physical environment and also a satisfactory 'emotional climate'.

Every school should have a policy for determining the health status of all children. Every child should have a medical examination before entering school and at intervals suggested by health authorities.

The school should see to it that health and safety instruction are an integral part of the curriculum.

Adequate facilities should be provided and physical education scheduled in the school curriculum for all children and youth. Opportunity for intramural competition is advisable for students beginning at the sixth grade, with an interscholastic athletic program for grades nine to twelve.

The school has the responsibility of providing instruction in recreational activities, as well as that of providing facilities and the opportunity to participate.

Children must be taught to make use of modern medical and dental services, establish good health practices, and to participate in daily physical education. It is the responsibility of the schools to include physical education and health education in the curriculum at all grade levels."

^{1.} Ray O. Duncan, Ed.D., West Virginia University.

Tours and Meetings

To organize a Health Education tour requires considerable preparation. If the field to be covered consists entirely of schools and children a number of health lessons must be prepared in readiness for teaching at the various grade levels. Should the objective be to work with teachers only, the initial steps involve the selection of suitable material for discussion and display. However, if the purpose of our tour is to work with lay groups, a number of talks will be required based on the needs of the communities being visited. Quite often one talk or lecture and a film to supplement will be useful to a number of separate groups. Visitation to local health staffs may require considerable equipment for a workshop in the use of audio-visual aids. Then, too, there is individual consultation with a member of the public health field staff on a matter of educational importance.

A single tour may occupy a period of a few days to a few weeks. In trips of short duration possibly only one of the above types of activity will be required; on a more extended tour it is not uncommon to have a program covering all phases of this type of service.

The success of such tours depends to a large extent upon the cooperation of the local health representative. Correct advance briefing of the individual group, organization officer, and staffs of schools and health units is most essential. This enables those concerned to orientate school children and colleagues for the forthcoming visit. In the case of a classroom talk the teacher will briefly discuss the purpose of the visit and acquaint the children with the subject to be presented. Quite often in conjunction with these health lessons or talks it is necessary to secure blackout material for rooms not equipped for film showing. Occasionally it is necessary to arrange for a hall. These are examples of the type of local assistance which contribute to a successful undertaking.

In 1957 many such settings were planned by public health field staff for the director of health education. The first tour of the year was in February to Fort Assiniboine to meet with the Home and School Association over a film and talk explaining the service of a health unit. This community was seeking information upon which to base a decision for inclusion within an organized health unit. Considerable discussion resulted in a vote being taken and a resolution requesting the health unit service was prepared for presentation to the minister of health.

Beta Sigma Phi, a business women's sorority in Edmonton, were interested in child behavior. A short talk introduced the subject. The film "Sociable Sixes to Noisy Nines" was shown and a discussion brought enlightenment to a few controversial topics. An opportunity of this nature is occasional and accepted with pleasure by health education service.

Other meetings of this nature took place at Marlboro and Namao in Edmonton. The sponsors were local Home and School Associations. Schools

The opportunity to participate in school health education is always a challenging and rewarding experience. During the year a number of schools were visited to present lessons on health related to the provincial curriculum on Health and Personal Development. Subjects of interest were: dental health, nutrition, sanitation, communicable disease and alcoholism. Twelve separate films were screened to supplement the lessons taught in grades from one to twelve inclusive. Six hundred boys and girls were given instruction in these classes. An invitation was accepted to introduce two new films on venereal disease to students at the School of Education, University of Alberta. The two classes concerned previewed and evaluated the films with respect to use in the high school health program.

CONVENTIONS AND CONFERENCES

Through the director of Health Education Service the Department of Public Health has been represented on the Health Curriculum Committee, Department of Education, in the preparation of a health course for the junior and senior high schools. This committee reached its current objective early in the year. The courses of studies thus completed will be in use in Alberta schools for a period of five years before a revision will be approved. In the interim, committee members have opportunity to receive first hand evaluation of the course content through brief conferences with teachers. A study of the services of the Department of Public Health has been integrated into the program to prepare children for more effective and efficient use of our health services.

During the fall a number of health teachers were visited at schools in different areas of the province. A member of the local health unit staff accompanied the director of health education on each call. The purpose of the tour was to demonstrate health education materials and explain their effective application in the school health education program. The health teachers counselled in this manner averaged eight per school, with a minimum of one and a maximum of twenty-one teachers at the two extremes.

Three conferences were attended during 1957. The first was at Regina in April where health education directors of the Western provinces met to discuss programs in health with the stress on educational procedure and method. Ideas of merit were noted and implemented into our program where feasible. A dental health education work manual was examined and evaluated. It can be of much value if adopted by teachers in Alberta to assist in the presentation of material designed for prevention of dental caries.

In May the Municipal Nurses held their spring conference in Edmonton. A film which served as a basis for discussion was shown the group by the director of health education. The theme was child behavior. A display of new literature was available to the nurses.

Finally in the late fall the Medical Officers of Health Units Conference was attended by a representative from Health Education. New films, a filmstrip and health education literature were viewed and commented upon. Through group examination of this nature decisions regarding visual aids can be made for library selections.

A tour of health units and municipal nursing stations gave us an opportunity to discover how health education was being practiced in the field. A number of projects including a girl's study group, home and school requests for a health education program and school talks were under way in different sections of the province. There was proof of incidental health teaching at every point where health service is maintained. All public health personnel interviewed approved the suggestion that greater effort be directed to a broadened program in health education.

The teamwork between public health personnel and school staff could be made more effective through integration of their respective programs in health. Recognition of this philosophy is acknowledged by most and indications of application of the principle are beginning to show in many parts of the province. Each year in the fall, Health Education Service has an opportunity to display its literature at teachers' conventions. Our exhibit of colorful three panel units was organized around the curriculum in health for grades one to ten inclusive. The topic for the unit was selected from the curriculum guide for the grade concerned. These displays are constructed for easy folding and portability. Interest in this type of planned reference for subjectmatter teaching was high.

Additional classroom health education materials were on display in folders, the literature classified by grade and topic. Application forms listing health literature for the different grades were available to teachers.

Health Units in areas where teachers' conventions were held provided staff to man the exhibits. This cooperative service gave an opportunity for teachers to discuss school health problems with the nursing and medical personnel of the health units.

Conventions attended were at Lac La Biche, Red Deer, Grande Prairie, Fairview, Edmonton Districts I, II and III, Calgary Rural, Camrose and Edmonton City.

WORKSHOPS

A workshop in health education may take form around a theme of a philosophical nature; it may be a planned teaching method; or it may exemplify the word workshop in its original meaning when directed to audio-visual aids. At Barrhead substation in the Sturgeon Health Unit a workshop on film utilization and use of audio-visual equipment was organized for June. Participation by staff members was effected through practice with equipment and role playing. Later, when autumn had set in, the health unit staff at Red Deer convened for a workshop on

methods employed in demonstration of health education materials before teacher groups. The culmination of this consultation was apparent sometime later at the local district teachers' convention where a series of health education displays were exhibited. The teachers viewed health education literature on usable media with direct application to classroom practice.

FILMS AND FILMSTRIPS

Production

Health Education Services prepared a script for a film on the Department. Mr. G. M. G. Smith of this division wrote the story as one of his major contributions to the program in health education. The filming was about completed at the close of the year. Colored prints of the new film should be available for general use in the province by the summer of 1958. This film will be used in conjunction with talks to groups interested in the history and development of the public health program of this province over the past four decades.

Preview

Each year we receive a large number of new films for preview from Canadian and American producers. These film titles have been selected because of their classification within the many categories of health education. Committees of public health and lay persons are organized to assist in the selection of previewed films for general showing throughout the province. There were ninety separate screenings of new films requiring the assistance of many individual committees.

Loan Service

With the ever-growing population of the province, with an increasing film library and the extensive demand for film loan, this audio-visual aid service is kept constantly busy booking films. Nursing Aides' Schools, Nurses' Training Programs, Home and School Associations, Health Units, Provincial Mental Institutes, the Victorian Order of Nurses, the St. John Ambulance Association, schools—city and country—and many other groups use this service.

Our more technical films on the subjects of childbirth and antibiotics are requested most frequently by Nurses-In-Training.

Films on child care and development are in demand by Home and School Associations, special study groups, and women's organizations.

Health Unit personnel borrow many films for in-service education. A critical examination of the film by the staff prepares them for presentation of the topic to school groups as a supplement to the school health education program.

During the year thirty-three new films and filmstrips were purchased, bringing the total to four hundred and four films, and one hundred and eighty-three filmstrips. Seventy-three of our films are so popular that several copies of each were made available to supply the demand for screening.

Public health films shown in the schools are bought with an eye to the health curriculum for the elementary and secondary schools of this province. Health topics available in films are developing in wider areas of the educational field each year. A selective policy enables us to provide films suitable for different grade levels ranging from one through twelve. All films are available on a free loan basis. A catalogue of descriptive film listings is available to all schools.

Associations, Federations and Women's Groups borrow films to supplement talks or to use as a basis for group discussions at meetings.

During the year the screenings of health education films totalled 9,008 with an estimated audience of 582,045.

Not only does the hit parade have their hit songs, but, we too, have films that are more popular than others. For two successive years now, the film "Your Health Unit", has been at the top of the list. This film, which portrays the work of a health unit, was produced by our department. Immunization, Age of Turmoil in adolescent development, Defence Against Invasion concerning the mechanism of immunization, Human Reproduction and One Girl to Another in the area of personal hygiene were also very much in demand.

RADIO TALKS

Once a week over CKUA, this division sponsors a recorded talk on topics of health, including child care and development, mental health, communicable diseases, chronic diseases, dental health, personal hygiene, physiology, sanitation, and first aid and safety. These talks consist of interviews which disclose interesting and informative thinking on these areas of health education.

With each broadcast, the availability of pamphlets and films, related to the subject is announced.

Information sheets on this radio service are sent out periodically, with orders of literature, outlining program topics and related pamphlets and films.

EXHIBITS AND DISPLAYS

During the Edmonton Exhibition, a representative of this division illustrated the services of the department from prepared slides screened on a projectograph. The filmstrip projector was also used in conjunction with the tape-recorder to present the aims, purposes and services offered by each of the divisions of the department.

In October a representative from this division attended the three Alberta Teachers' Association Conventions in Edmonton and a fourth in Calgary.

At the conventions we exhibited a series of nine, three-sided painted displays, portraying suitable school health literature, graded and classified. Also listed on these displays were health film titles associated with the theme of the display. Forms requesting literature exhibited were made available for the teachers to complete at their convenience.

Our attendance at the conventions was an opportunity for the divisional representative to mingle with the teachers, listen to and discuss their health education problems, and explain how we might be of help to them.

The majority of teachers contacted were familiar with our services and were making use of them in the schools. We found that the teachers were primarily interested in material that was new or revised. Secondary to this was appraisal and approval of time-tested aids.

The division also made the most of these opportunities to promote new and sustaining interest in our library of health films, as teaching aids. There were teachers who were not familiar with our film library and the services offered through it.

HEALTH EDUCATION LITERATURE

Publicity, thought and hard work have been rewarded by a demand almost exceeding the supply of health education literature in some fields. Through the various media of radio, television, newsletters, bulletins, and specific pamphlets on health subjects, our services are reaching the homes, schools, organizations and associations in the province. Our material distributed, covers the fields of child care and development, mental health, communicable diseases, dental health, sanitation, personal hygiene, first aid and safety.

The "Canadian Mother and Child", and "Up the Years From One to Six", are two of the most popular books distributed from this division. Another production is an individual health chart very much in demand for pupils in the elementary grades in the schools. "Ways to Keep Well and Happy", a well-illustrated and well-written booklet on good rules for good health, was very popular as a school request in the elementary grades. "About Us and Our Friends", a primary reader-like booklet on health and "Common Childhood Diseases", was also in heavy demand.

A mimeographed booklet depicting in outline the organization and services of the department is brought up to date yearly. This material is an invaluable aid to teachers of health. Further to this topic a printed publication, "Alberta's Health Services Program", is also widely distributed to homes, schools, associations and organizations.

THE ANNUAL REPORT

The distribution of the annual report of the Department of Public Health has been a service provided by this division. Approximately four hundred copies are mailed to interested individuals and organizations.

NUTRITION SERVICES

ELVA M. PERDUE, B.Sc. (H.Ec.), B.Ed., Nutritionist

During the past year, definite progress was made toward establishing nutrition services on a consultant rather than a direct basis. This was due to an improved understanding at both provincial and local levels of the nutritionist's role in the health department program as well as to an increased number of requests for consultation.

Service provided at the local level is dependent to a great degree on the special interests of the local health personnel. Staff education in nutrition, especially for municipal and health unit nurses, continues to be an important service, but since time for this phase of the program is limited, it is necessary to emphasize general principles rather than details. The nutritionist is also available for assistance with problems in the field. This entails spending time with the nurses in their areas for conferences, home visiting and program planning.

At the provincial level, the nutritionist again provided inservice training and orientation in nutrition for municipal and health unit nurses joining our staffs. Provincial conferences staff meetings and a refresher course were also attended during the year to assist professional personnel to keep up with new developments in nutrition. Field staffs continued to be informed of current trends by the monthly mimeographed release "Nutritionally Speaking" and comments on this material were most encouraging.

Health department personnel have organized community classes in general nutrition education and special classes for prenatal and overweight women. The nutritionist has assisted in planning the lecture material and in some cases has taught the classes. A gratifying growth of interest in the dietary budget of low income families and in special diets for convalescents has been noted.

The nurses employed in industry continue to request assistance for workers and our nutrition exhibits have been in considerable demand for their programs.

A further function of Nutrition Services is assistance to small institutions which do not employ a dietitian. Accordingly, at the request of the Department of Municipal Affairs, a survey of the dietary department at the Pleasantview Home in Youngstown was carried out in the month of September. A report was prepared, suggestions made and quantity recipes supplied. Consultant service was also given during the year to private and public hospitals and to some residential schools which requested assistance with their problems in food service, menu planning

and food purchasing. The publications "Institutional Supper Menus" and "Menu Suggestions" continue to meet a wide need in this area.

Among social agencies requesting consultation service in 1957 were the Victorian Order of Nurses, Indian and Northern Health Services, City of Edmonton Welfare Department and the Salvation Army. Assistance was also given to university students with the research required for their nutrition assignments.

Much of the time of the nutritionist is devoted to educational activities for school children and has been spent this year in planning nutrition programs and projects. This work falls into three areas—assistance to teachers in securing materials, in planning animal feeding experiments and in student diet record studies. The animal feeding experiments have created interest among both students and parents and new record sheets have been obtained so that teachers can now evaluate diet records with little assistance from the nutritionist. To further the dissemination of nutrition knowledge via the schools, public health nurses are encouraged to carry folders of nutrition publication on their school visits. The teachers are then given an opportunity to complete order forms to obtain the publications for use in their classrooms. Personal contact with teachers was widened by a paper which was prepared and delivered by the nutritionist at the Edmonton Teachers' Convention in February.

Individual inquiries from both lay and professional persons were answered as usual throughout the year as promptly and as completely as possible. Assistance was given on a variety of subjects, including budgeting, food values and food fads. A wide variety of personal and form letters, publications, reports, statistics, monthly bulletins and posters were sent out in connection with the nutritionist's information service to the public.

A small lending library of nutrition books continues to operate from the central office as a resource for the staff and, in some cases, for the general public. One of the most popular books in 1957 was "Diabetic Care in Pictures". Reference publications and files were also loaned on request.

In addition to the nutritionist's duties within the province, she was granted permission to attend the annual meeting of the Dominion-Provincial Nutrition Committee and participated in the program.

Miscellaneous activities have been too many and varied to incorporate into a single report. They range from such things as pre-planning market orders and menus for summer camps to helping a housewife to meet adequate dietary standards and assisting the matron of a small hospital to obtain standardized recipes for her hospital. These, together with other miscellany, resulted in increased work output from this office during 1957.

ENTOMOLOGY

J. H. Brown, B.Sc., M.Sc., F.A.P.H.A., M.R.S.H., Director

The Division of Entomology deals with insect-borne diseases, and reservoirs of human infection in native small mammals, with particular attention being paid to Rocky Mountain Spotted Fever, Colorado Tick Fever, Bubonic Plague, Tularaemia and Encephalomyelitis and other lesser well-known conditions.

Other insect problems, such as fly and mosquito control, insecticides, insect infestation in food-stuffs and insect pests of institutions, fall within the work of the Division. Furthermore, a considerable amount of time is devoted to determining the distribution of insects, ticks and mites that are involved in the transmission of human diseases.

TICK SURVEY

Rocky Mountain Spotted Fever ticks are well established in Alberta. Their known and supposed range embraces all of that part of Alberta south of a line from Empress west to Calgary, and thence north and west in the foothills and mountains north to Fort St. John, B.C.

During 1957 a total of 1,590 doses of Rocky Mountain Spotted Fever vaccine were given. Of these 809 were given at Manyberries, Redcliff, Medicine Hat, Elkwater and Thelma. There were 781 given at Ralston.

A number of drilling and seismographic companies also secured vaccine during 1957 for the protection of their personnel working in the tick-infested areas of the province.

PLAGUE SURVEY

Two very large areas of plague infection, one centering on Hanna and the other on Brooks, exist in Alberta. In both of these areas plague-infected gophers and plague-infected gopher fleas are present in large numbers.

It is known that there are 14 species of fleas in Alberta that are capable of transmitting plague from infected animals to man. Fortunately most of these species are not very numerous, and in many cases their distribution is limited. In 1957 a number of flea collections were made in various areas but no positives were found, but it should be obvious that the lack of positives does not necessarily mean any decrease in the amount of infection in fleas and gophers.

FLY CONTROL

Lethbridge Fly Control District. In 1957 the fly control program was very successful with the benefits being received by the towns, villages and dairy farmers participating far outweighing the actual cost.

Camrose Fly Control. During 1957 the program was expanded and excellent results were obtained with the use of the

"Tifa" fogging machine, which was purchased in 1954 on the recommendation of this Division.

MOSQUITO CONTROL

Edmonton. During 1957 the program consisted of spraying and larvaciding with DDT pellets.

Medicine Hat. This Division advised the City of Medicine Hat as to the best methods to follow. This program consisted of the use of a "Tifa" machine supplemented with larvaciding. It proved to be an economical and effective control program.

SCHISTOSOMIASIS

Practically all of our lakes are infested with *Schistosome dermatitis* which is commonly called "swimmer's itch", and is caused by the penetration of the skin by a small fork-tailed parasite (cercariae). In man it always follows bathing or swimming in infested lakes or ponds and is characterized by a localized area of very itchy weals.

Snails, which are the hosts for the *cercariae*, are sensitive to copper, and small quantities of it in the water will poison them. Some work has been done with the use of copper sulphate (blue vitriol), copper carbonate and copper ores in the killing of snails. However, permanent control will call for extensive survey and experimental work.

LEECHES

During 1957 reports of the leech infestation came in from many Alberta lakes and appropriate advice was given.

HARVEST ITCH

Harvest itch is a skin condition somewhat similar to scabies and is caused by mites. The mites involved are normally on such vegetation as grain and grasses and are accidentally transferred to the person of harvesters and others handling such materials. Necessary advice was given to Health Units and local practitioners.

LABORATORY

Insect Collections. Good progress is being made in arranging the collection of insects and ticks injurious to human health.

During 1957 there were also 42 separate collections of insects from different products and places, sent in for determination. The insects in these samples were identified and suitable information was supplied to the person from whom the sample had been received.

INSECTICIDES

Vapourizers are mechanical devices for releasing the fumes of lindane and other insecticides by means of electrical heating

elements. Installation regulations under the Canadian Standards Association are used to control their use in food-handling establishments.

This Division has always maintained that there is no *safe* insecticide, but that all insecticides can be used *safely*. To give some protection in the event of poisoning, our publication on "Antidotes for Pesticides" was reprinted for wider distribution to Physicians, District Nurses and Hospitals.

The usual educational work in regard to the control of insect-borne diseases was carried out by means of radio, motion pictures, newspapers and lectures. The usual lectures to Medical Students, Public Health Nurses, Nurses-in-Training and Undergraduates were given, and in some cases, expanded.

DIVISION OF MEDICAL SERVICES

M. G. McCallum, M.D., Director

THE SCHOOL FOR NURSING AIDES

The School for Nursing Aides in Calgary continued to operate at near capacity in 1957 with its program of providing an education for individuals, who, when they become licensed as Nursing Aides, are employed in hospitals throughout the province. There is an ever increasing demand for these Aides who provide bedside nursing to hospital patients and thus are an integral part of the nursing team with the graduate nurses. As a result, plans are being made to open a school in Edmonton early in 1958.

The present school in Calgary is operated by the Provincial Department of Public Health, and was opened in 1946. The total number of students enrolled at the school during the calendar year 1957 was 276. The number completing the course during this time was 214.

Since the inception of the program the Aides certified on a calendar year basis are as follows:

1946	10	1952	216
1947	41	1953	208
1948	160	1954	256
1949	117	1955	270
1950	159	1956	254
1951	247	1957	239

The total number certified since 1946 is 2,177. Of the total certified as of December 31, 1957, there are 1,197 employed in Alberta hospitals and 246 employed in hospitals outside the province.

Over one-half of the Nursing Aides certified in the twelve years since the inception of the program are on active duty in hospital work in this province, thus contributing greatly to the Provincial Hospital Program.

NURSING RECRUITMENT PROGRAM

There has been a considerable shortage of nursing personnel in the hospitals of the province and in an attempt to relieve this shortage somewhat, the Provincial Government in 1956 instituted a program of Nursing Recruitment. This includes an effort to recruit applicants for education as Nurses and Nursing Aides. A Nursing Recruitment Officer was employed by the Department of Public Health to carry out a recruitment program. This is done by means of pamphlets, posters, newspaper advertisments, radio and television. Films and filmstrips are in use also. Material is prepared and distributed for use by counsellors in secondary schools. Speakers are obtained for Career Day talks in schools. The Recruitment Officer also visits schools throughout the province and informs students of the career possibilities in the field of nursing.

The direct results of instituting this program are rather difficult to assess, but it is felt that the nursing situation in the province is considerably better than it would be otherwise. The program has the full co-operation of the schools and hospitals throughout the province.

THE LABORATORY AND X-RAY SCHOOL

During the period since 1954 when this school was established in Edmonton to provide technical assistance in diagnostic laboratory and radiological services for the small general hospitals of this province, there has been a considerable improvement in such services provided by those small hospitals able to obtain such assistance. At the end of the 1956-57 school term there had been a total of 41 technicians placed in these hospitals.

The course, which requires six months to complete, provides three months training in clinical laboratory and three months training in x-ray. During 1957 there were 16 technicians certified in March and 18 students enrolled in October. At the end of this period there was a considerably larger demand for technicians than could be filled by this school.

STATISTICAL DATA—DECEMBER 31st, 1957 Certified Technicians—1955-1957

Year	Location of Technicians at Dec. 31st, 1957						
200	Certified Technicians		In Hospitals other areas	Inactive			
1955	14 12 16	8 6 16	1 4 0	5 2 0			
Totals	42	30	5	7			

It will be noted from the above table that 30 out of a total certification of 42 technicians were still active in Alberta hospitals at the end of the year 1957.

HOSPITALIZATION AND TREATMENT SERVICES FOR SOCIAL SERVICE RECIPIENTS

During 1957, as during 1956, persons eligible under the program of health care for Social Service Recipients received complete hospitalization care at government expense without charge, except for a few minor exceptions. The treatment services included medical care, dental services, optical services, and special services such as physiotherapy, etc., on approval of the Department.

Provincial expenditures on behalf of the group amounted to \$3,743,750.70 in 1957, of which \$381,399.00 was spent in per diem and extra per diem grants. These expenditures were \$203,018.21 more than the expenditures in 1956. The breakdown of provincial expenditures on behalf of the group in 1956 and 1957 is shown in Table I.

TABLE 1

PROVINCIAL	EXPENDITURES	ON	BEHALF	OF	PENSION	GROUP-1956	AND	1957

	1956	1957
Hospitalization Medical Care Dental Care Optical and Optometric Services Other Treatment Services	603,839.48 146,385.30 82,762.81	\$2,834,488.05 672,943.79 146,480.65 87,190.96 2,647.25
TOTAL	\$3,540,732.49	\$3,743,750,70

The average number of Social Service Recipients in the province was 36,620 in 1957, an increase of 87 over the previous year. The average per eligible pensioner expenditure for the group was \$102.23 in 1957. The comparable figures for 1956, 1955 and 1954 were \$96.61, \$94.95 and \$85.23 respectively. At December 31st, 1957, the Social Service Recipient group comprised the following:

TABLE 2 SOCIAL SERVICE RECIPIENTS AS OF DECEMBER 31, 1957

	Recipients	Spouses	Dependents and Children	Total
Old Age Security (A)*	19,514	2,150	346	22,010
Old Age Assistance	5,327 524	1,093	326	6,746 524
Old Age Security (B)† Blind Pension	399	117	140	656
Mother's Allowance	1.842	******	4,402	6,244
Widow's Allowance	783	·	6	789
TOTAL	28,389	3,360	5,220	36,969

^{*}Recipients of Old Age Security plus supplementary allowance. Recipients and dependents entitled to services.
Recipients of Old Age Security with income not exceeding \$1,000 if single, \$1,500 if married.
Recipient alone entitled to service.

1. Hospitalization of Social Service Recipients

The daily hospitalization payments under this program, including the \$1.50 per day paid in per diem grants, were as follows in 1957:

Hospital Groups	First 20 days	Subsequent to 20th day
A	\$13.25 per day	\$9.75 per day
B	\$10.95 per day	\$8.40 per day
C	\$10.15 per day	\$7.80 per day
D	\$ 9.95 per day	\$7.80 per day
E*	\$11.05 per day	\$9.30 per day

^{*}Includes Outpost Grant of \$1.80 per day

During 1957 the pensioners spent a total of 254,266 days in hospital, an average of 6.9 days for every pensioner eligible compared to 5.7 days in 1951. The examination of the data presented in Table III reveals, however, a decreasing tendency in the pensioners' average stay in hospital in the past two years, 1956 and 1957. The average length of stay of pensioners decreased from 15.6 days in 1955 to 14.4 days in 1957. The increase in the pensioners hospital days, therefore, can largely be attributed to the rise in admission rate of pensioners, which went up from 39.3% in 1952 to 47.5% in 1957.

The study of pensioners in their respective groups shows that Old Age Pensioners and Blind Pensioners experienced a decrease in their average length of stay while pensioners who fall under Widow's Allowance and Mother's Allowance groups experienced an increase in their average length of stay.

TABLE 3
HOSPITAL UTILIZATION OF SOCIAL SERVICE RECIPIENTS BY GROUP—1952-1957

			Number Hos-	
Year	Average Eligible	Number Hospitalized	pitalized as % of Eligible	Average Stay
	AL	L GROUPS	Ü	
1952 1953 1954 1955 1956	30,750 32,757 33,765 35,623 36,533 36,620	12,100 13,921 15,087 16,418 17,119 17,382	39.3 42.5 44.7 46.1 46.9 47.5	15.2 15.5 15.0 15.6 14.8 14.4
	OLD	AGE GROUP		
1952 1953 1954 1955 1956	24,831 26,348 26,987 28,299 28,974 29,031	10,869 12,468 13,410 14,640 15,399 15,522	43.7 47.3 49.7 51.7 53.2 53.5	15.9 16.2 15.7 16.4 15.4 14.9
	MOTHER	'S ALLOWANC	E	
1952 1953 1954 1955 1956 1956	4,981 5,189 5,497 5,954 6,141 6,172	921 963 1,061 1,126 1,117 1,138	18.5 18.6 19.3 18.9 18.2 18.4	6.9 7.6 7.0 7.1 6.9 7.0
	BLI	ND PENSION		
1952 1953 1954 1955 1956	750 645 599 623 622 646	273 284 293 315 297 376	36.4 44.0 48.9 50.6 47.8 58.2	13.5 14.4 15.8 14.8 17.1 15.9
	WIDOW	S ALLOWANC	E	
1952 1953 1954 1955 1956	188 575 682 747 796 771	37 206 323 337 306 346	19.7 35.8 47.4 45.1 38.4 44.9	10.5 12.2 11.9 11.4 12.5 14.2

2. Medical Care of Social Service Recipients

The provincial program of medical care to this group remained unchanged in 1957. The province continued to pay the Alberta College of Physicians and Surgeons \$1.37½ each month for every eligible individual under the plan with the College looking after the disbursement of the funds to the individual practitioners concerned for medical services rendered to pensioners.

In 1957, the province spent \$672,943.79 on this service, a sum of \$69,104.31 (or 11.4%) more than in 1956. Administration costs to the College of Physicians and Surgeons were \$24,039.59 (or 3.6%) of the total amount received.

Table IV shows the data on utilization of medical services by the Social Service Recipient group, during the year April 1, 1957 to March 31, 1958.

TABLE 4
UTILIZATION OF MEDICAL SERVICES

Type	Number of Office Calls	Number of House Calls	Number of Hospital Calls	Total
Old Age Group Dependents Mother's Allowance Dependents Blind Pensioners Dependents Widow's Allowance	10 5,649 2,927 1,552 26	27,597 4 741 581 630 1 340	199,331 27 3,258 2,149 4,093 67 3,265	289,159 41 9,648 5,657 6,275 94 5,806
TOTAL	74,596	29.894	212,190	316,680

3. Dental Services for Social Service Recipients

This program likewise remained unchanged in 1957. The province continued paying the Alberta Dental Association 33½ cents each month for every eligible individual under the plan, with the Association looking after the payment to individual dentists for services rendered to pensioners.

This service cost the province \$146,480.65 in 1957 as compared with \$146,385.30 in 1956. Administration costs to the Alberta Dental Association were \$12,392.23 (or 8.5%) of the total amount received.

Table V shows the utilization of dental services by the Social Service Recipient group during the last five years, 1953-1957.

TABLE 5
SOCIAL SERVICE RECIPIENTS UTILIZATION OF DENTAL SERVICES 1953-1957

Type	Number of Claims				As %	of E	igible			
	1953	1954	1955	1956	1957	1953	1954	1955	1956	1957
Old Age Group		2,973			3,442					
Mother's Allowance					2,700					
Blind Pension	155	135	158	151					24.3	
Widow's Allowance	104	127	129	147	129	18.1	18.6	17.3	18.5	16.7
TOTAL	5,345	5,355	6,116	6,103	6,420	16.3	15.9	17.2	16.7	17.5

There were 317 more pensioners utilizing dental services in 1957 than in 1956, adding up to a total of 6,420 pensioners. A greater percentage of the claims occurred in the Old Age and Mother's Allowance groups, with the former having 53.6% of the total claims and the latter 42.1%. However, a higher percentage (43.7%) of the Mother's Allowance group had dental care than any other pension group in 1957. This high rate of utilization in the Mother's Allowance group is due to the high percentage (70.5%) of children in it.

4. Optical Services for Social Service Recipients

A total of 6,901 accounts for eyeglasses at a cost of \$63,949.96 were approved and paid for in 1957. This is 202 accounts and \$2,567.65 (or 4.2%) more than in 1956. Total payments to optometrists in 1957 was \$23,241.00 for 4,728 claims as against \$21,380.50 for 4,424 claims in 1956. This is an increase of 8.7% in expenditures and 6.9% in claims.

Payment to the medical eye specialists is a part of the overall medical program.

5. Other Treatment Services

These services include physiotherapy, nursing services, chiropody and chiropractic services, and are provided on the recommendation of the patient's physician and with the approval of the Director of Medical Services. Expenditures on these services amounted to \$2,647.25 in 1957, an increase of \$278.25 (or 11.7%) over 1956.

POLIOMYELITIS HOSPITALIZATION AND TREATMENT PROGRAM

This program together with the Orthopaedic program, experienced a decline in expenditure in 1957. Total payments by the province on behalf of poliomyelitis patients amounted to \$529,192.10 in 1957, a drop of 17.3% from the expenditures in the preceding year.

The breakdown of these payments with 1955 and 1956 figures included for comparative purposes are given in Table VI.

TABLE 6
POLIOMYELITIS PAYMENTS

	1955	1956	1957
Isolation Hospital Care	\$ 27,840.05	\$ 7,563.50	\$ 4,284.95
Post Isolation Hospital Care	534,517.15	495,849.60	437,282.60
Medical Care in Hospital	98,212.50	93,581.95	54,677.60
Medical Supervision in Hospital	10,450.00	7,100.00	6,600.00
Appliances and Outpatient Services	43,471.73	35,940.64	26,346.95
TOTA Y	00714 401 40	2010 007 00	07.00 1.00 1.0
TOTAL	\$714,491.43	\$640,035.69	\$529,192.10

Of the total payments for medical care in hospital for poliomyelitis patients, a sum of \$13,906.00 was paid to the College of Physicians and Surgeons for medical care of respirator cases, \$26,329.60 was paid to surgeons for operative procedures, and the remaining \$28,348.00 was expended for other medical care cases.

The rates paid to hospitals for the Isolation and Postisolation care of poliomyelitis patients remained unchanged in 1957 from the year before and were as follows:

ISOLATION PERIOD

	Ph. 47 4	Province Pays Per Day			
Class of Hospital	Patient pays per day	For patients requiring ordinary ber care only	For Tracheotomy cases requiring bed care only	For all respirator cases	
A	\$2.00	\$10.25 & \$1.00	\$30.00 & \$1.00	\$40.00 & \$1.00	
В	\$1.80	\$ 8.30 & \$1.00	\$30.00 & \$1.00	\$40.00 & \$1.00	
C	\$1.60	\$ 7.10 & \$1.00	\$30.00 & \$1.00	\$40.00 & \$1.00	
D	\$1.50	\$ 6.80 & \$1.00	\$30.00 & \$1.00	\$40.00 & \$1.00	
E	\$1.30	\$ 5.90 & \$1.00	\$30.00 & \$1.00	\$40.00 & \$1.00	

POST ISOLATION PERIOD

Province Pays Per Day

Class of Hospital	Patient Pays Per Day	For Patients Requiring ordinary care only	Extra Payments for those in respirators	For Medical Care
A B C D E	Nil Nil Nil Nil Nil	\$10.25 & \$1.00 \$ 8.30 & \$1.00 \$ 7.10 & \$1.00 \$ 6.80 & \$1.00 \$ 5.90 & \$1.00	\$15.00 \$15.00 \$15.00 \$15.00 \$15.00	60¢ 60¢ 60¢ 60¢

The vast majority of poliomyelitis patients in 1957 were treated in the hospitals at Edmonton, Calgary, and Banff. The greatest number of patients were treated at the University Hospital in Edmonton which absorbed more than one-half (53.6%) of the total payments made by the province to approved hospitals for poliomyelitis care and treatment.

DIVISION OF CANCER SERVICES

V. W. WRIGHT, M.D., Director

The three Cancer Clinics in the Province of Alberta have experienced a very busy year (1957) as the tables below will reveal.

Statistical Cards for 1957 have been punched by our own staff and are in the process of being printed on an International Business Machine. When finished and sorted, complete statistical information will be available for 1953-54-55-56 and 1957 (a five-year period).

1. Number of examinations made (Malignant and Benign) January 1st-December 31st, 1957, is 18,243.

	New		Review		Total	
	1957	1956	1957	1956	1957	1956
Edmonton Calgary Lethbridge	2,843 1,514 530	2,716 1,483 525	8,902 3,206 1,248	8,663 2,766 907	11,745 4,720 1,778	11.379 4,249 1,432

It will be noted that the total number of examinations made in the Edmonton, Calgary and Lethbridge Clinics is 18,243, as compared with 17,060 in 1956; 14,306 in 1955; 13,026 in 1954; 10,827 in 1953 and 9,291 in 1952.

2. Number of examinations made where malignancy was proven —11,838 as compared with 11,087 in 1956 as shown in the following table:

1957		Calgary 1,620 1,506	Lethbridge 1,342 956	TOTAL 11,838 11,087
	llignant Cases Registered at Clinics	Malignant Not see Clinic	n at	TOTAL
Edmonton Calgary Lethbridge	1,220* 544* 215*	238 66 1		1,458 610 216
	1,979	305		2,284

The total number of malignant cases discovered in Alberta in 1957 was 2,284.

4. New Malignant Cases:

	Edmonton	Calgary	Lethbridge	TOTAL
1957	1,220	544	215	1,979
1956	1,120	563	166	1,849

There were 89 cases in the Edmonton Clinic which had not been malignant on previous examinations in which malignancy was proven this year.

There were 68 cases in the Edmonton Clinic which were malignant in previous years (before 1953) and reported to the Clinic for recheck examination this year.

^{*}A few cases treated previously in other provinces are included in these totals.

5. Number of examinations made on patients which proved Benign—

1	Edmonton	Calgary	Lethbridg	TOTAL
1957	2,869	3,100	436	6,405
	2,754	2,743	476	5,973

The X-Ray Department of the Edmonton Clinic has had a particularly busy year as shown in the following table:

Diagnostic Radiology	1957	1956
Number of patients Number of examinations Number of X-ray films taken	4,236 5,665 17,338	3,714 4,574 14,000 (app.)
Therapeutic Radiology New patients	626	588
Treatments given by Cobalt 60 X-ray Cobalt 60 and X-ray	7,904 3,005 402	5,644 4,313 345
Total number of treatments	11,311 172	10,302
Biopsies done Blood counts done in Clinic Laboratory	154 6,024	141 4,143

NUMBER OF CASES SUPPLIED WITH THE FOLLOWING SERVICES

	Hospital Services			liation erapy	Diagnostic X-Ray	
	1957	1956	1957	1956	1957	1956
Edmonton	915	922	626	628	5,674	4,591
	588	420	385	367	812	781
	202	315	125	134	465	322
	1,705	1,657	1,136	1,129	6,951	5,694
	Major		Exploratory		Breast	
	Surgery		Laparotomy		Biopsies	
	1957 1956		1957 1956		1957 1956	
Edmonton Calgary Lethbridge	566	583	108	149	230	225
	432	320	82	74	235	215
	117	92	21	25	88	115

	1,115	995	211	248	553	555
		her osies 1956		nostic ttages 1956	Encer grams 1957	
Edmonton Calgary Lethbridge	475 370 164	524 282 142	245 76 27	238 43 62	11 0 0	13 0 0
	1,009	948	348	343	11	13

	Bronchoscopy & Oesophagoscopy		Sigmoi	Sigmoidoscopy		Cystoscopy	
	1957	1956	1957	1956	1957	1956	
Edmonton	102	90	226	203	220 98	206	
CalgaryLethbridge	4	13 2	9	8	26	48 18	
	120	105	239	214	344	272	

	Diagnostic Consultations		Labo	oratory ests	
	1957	1956	1957	1956	
EdmontonCalgary	110 46	131 34	6,118	4,187	
Lethbridge	2	3	26	12	
	158	168	6,144	4,199	

^{*}Included in Nursing Services

Since the opening of the Clinics in 1941 the total number of examinations made is 134,572.

DIVISION OF SOCIAL HYGIENE

P. L. RENTIERS, M.D., Director

The year 1957 has shown a gratifying decline in the incidence of syphilis in Alberta especially in the early (Primary and Secondary) infectious forms of this disease. It will be noted from the statistical report that the decrease in incidence of syphilis, all forms, amounted to 13.9%. Of particular significance is the very definite decrease of 65.4% in the primary infections and the even larger drop of 72% in the secondary infections.

On the other hand, since new case findings has been continuously emphasized, the mass blood surveys conducted largely by the Mobile Clinic have turned up a greater number of previously undiagnosed late infections. In latent and late syphilis (non-infectious) an increase of 38.1% occurred. In congenital syphilis eleven cases were reported, an increase of eight cases over the figures for 1956. It is heartening to realize, however, that in this group no newborn was reported to the department, the eleven cases ranging in age from eight to eighteen years. Nine of these were asymptomatic and were diagnosed by routine blood testing. The two remaining cases were discovered as a result of medical examination (interstitial keratitis).

Insofar as gonorrhoea is concerned, there were 351 more cases reported than in 1956, which represents an increase of 18.3%. Many factors may be advanced to explain the variance. There appears little doubt that the nature of the disease, with its short incubation period, its asymptomatic carriers, renders it less amenable to mass control, despite the relative ease of treatment. Painstaking tracing of contacts and sources of infection will of course be reflected in a heightened recognition. This Division is doubtful that even the above high figure is a true one. In this era of rapidly effective antibiotics one feels that many cases are not reported, as unfortunately no laboratory control exists for gonorrhoea as it does for syphilis. In this manner many contacts to infected cases are beyond the reach of our social investigators.

Of special interest is the fact that 12.2% of the total number of cases of syphilis reported in 1957 occurred in recent immigrants to the province.

The metis and Indian population (approximately 4.5% to 5% of the total population of Alberta) accounted for 29.9% of all venereal disease reported to this Division.

The statistical report of the Division is as follows:

ALLEGED SOURCES OF VENEREAL INFECTION OR CONTACTS For the Period January 1st. 1957 to December 31st. 1957

For the Per	lod January 1st, 19	357 to December 31st,	1957
Location of Source of Infection or Contact	Number of Sources of Infection or Contacts Reported	of Infection or	Percentage of Sources of Infection or Contacts Located
Edmonton Calgary Lethbridge Remainder of Province	. 413 . 31	836 379 24 702	89 % 92 % 77 % 90 %
ALBERTA TOTALS	. 2166	1941	90%
Sources of Infection or Contact reported outside of the Province of Alberta		51	41%
TOTALS	. 2298	1992	87%
Unit Forwarding Information Armed Forces	. 2057	of Infection or	Percentage of Sources of Infection or Contacts Located 78% 88% 68%
TOTALS	. 2298	1992	87%
How Informant Met So	Alberta who could (N.H. 1) with no FORMATION ON '	not be located by aut information for contact THE FACILITATION Where Informs	horities concerned 12 t finding 359 PROCESS
Infection or Conta		of Infection Boarding or Rooming	
Pick-ups Introduction	40 2%	Restaurant or Beer Pa	

How Informant Met Source of			Where Informant Met Source		
Infection or Contact			of Infection or Contact		
Pick-ups Introduction Friend Marital Partner Common-law Wife House of Prostitution Casual Acquaintance Appointment No Data Available	203 334 182 0 52 4	28% 2% 9% 15% 8% 0% 2% .2% 36%	Boarding or Rooming House Restaurant or Beer Parlor Dance Hall Street or Outdoors Friend or Private House Hotel Marital Partner Recreation or Private Party Train, Bus or Bus Depot House of Prostitution Taxi or Taxi Office At Work No Data Available	192 41 116 270 80 333 50 14 0 2	.6% 8% 2% 12% 3% 14% 2% 0% .8% .3%

DETAILS OF INFORMATION OBTAINED ON THE CONTACT INVESTIGATION

DEIMING OF THE CITATION					
Place of Exposur		200	Occupation of Source Infection or Conta		
Place of Exposur Rooming House	79 19 329 59 207 34 219 346 0	3% .8% 14% 2.6% 9% 1.4% 15% 0% 44%	Infection or Conta Waitress, Waiter or Bartender Housewife Prostitute or Street Walker Domestic, Hotel or Hospital Maid Teacher or Cashier Factory or Plant Worker Entertainer Service Personnel Unemployed Laundress or Dry Cleaners Truck, Taxi or Bus Driver Farmer, Trapper or Logger Nurse, Nurses' Aide or Intern Dressmaker or Hairdresser Laborer or Transient Businessman Tradesman, Electrician or Plumber Student, Usherette or Usher Dispatcher Fireman or Trainman Contractor or Construction Worker Janitor Switchboard or Telephone	act 141 125 30 91 68 4 27 30 631 17 13 38 1 25 16 1 4	6% 5% 1% 4% 3% .2% .3% .1% .7% .5% .1% .4% .4% .4% .2% .4% .4% .4% .4% .4% .4% .4% .4% .4% .4
			No Data Available	1632	.2% 71%

PROVINCIAL CLINIC, Alberta Jasper Building, 9815 Jasper Avenue, Edmonton, Alberta. Total Number of New Cases of Venereal Disease Classified as to Sex and Age of Patient:

	Under 1 Yr.			4 rs.		14 rs.		19 rs.		Yrs. Over	Age Sta	Not ated	Totals
	M	F	M	F	M	F	M	F	M	F	M	F	Ţ
Chancroid Gonorrhoea (All Forms). Syphilis (Congenital) Acquired—Primary Acquired—Secondary Acquired—Latent							36		507				798 2 6 1 20
TOTALS							36	36	526	230			828
Number of Cases of Chanc Number of Cases of Syphil Number of Cases of Gonon Number and Results of Ser Number and Results of Da Number and Results of Cel Number and Results of Ba Number and Results of Cul Total Number of Patient Total Number of New Adr Total Number of Old Infer Syphilis Gonorrhoea	is—M rhoea ologic rkfiel rebros cterio tures Visits missio ctions	lale 1 —Ma cal Te dd Ex spinal logica taken	8, Fe le 543 ests fo amina Fluid I Tes n for	emale 3, Fer or Sypations d Tes dts for Gono	nale 2 philis: 45 ts: 3 Gone cocci:	8,77 of whococci 2,09	2 of volich 2 hich 0 i: 3,05 3 of iii	vhich were were 57 of which	344 ve posi e posi whice 351	were j tive. tive. h 706 were	positiv were posit	 /e. positive. 19	1 29 798 tive. 9,147 947 92 93

PROVINCIAL CLINIC, Alberta Office Building, 134 - 8th Avenue, S.E., Calgary, Alberta. Total Number of New Cases of Venereal Disease Classified as to Sex and Age of Patient:

	Und 1 Y		1 Yr			14 rs.	15-1 Yr	19 's.		rs. Over	Age Sta		Totals
	M	F	M	F	M	F	M	F	M	F	M	F	To
Gonorrhoea (All Forms) Acquired—Primary Acquired—Secondary									387 2 1	205 1 1			655 3 2
TOTALS						3	19	41	390	207			660
Number of Cases of Syphil Number of Cases of Gonor Number and Results of Set Number and Results of Da Number and Results of Ea Number and Results of Ea Number and Results of Cul Total Number of Patient V Total Number of New Ad Total Number of Old Infe Syphillis	rhoea rologi rkfiel rebro cterio tures isits imissi ctions	—Ma cal Todal Ex spinal logica taker ons for	le 400 ests f amina l Flui l Tes n for follow	6, Fe for Sy ations d Te- ts fo Gono v-up	male philis 16 sts: 1 Gon cocci:	249 4,06 of who of woococc 23 of	63 of nich 0 which i: 2,8 f which	which were of week and we were and we were and we were and we were and we well and we were and well we were and we	h 124 e posi ere po whice were	were tive. ositive h 746 positi	e posi	tive.	5 655 tive. 7,115 890 62
Gonorrhoea													0

PROVINCIAL CLINIC, 315 - 10th Street South, Lethbridge, Alberta Total Number of New Cases of Venereal Disease Classified as to Sex and Age of Patient:

			Under 1-4 1 Yr. Yrs.		Yrs.			Yrs.				Not ited	Totals
	M	F	M	F	M	F	M	F	M	F	M	F	To
Gonorrhoea (All Forms) Acquired—Tertiary										_			45
(Neuro-Syphilis)	*****				******				1				1
TOTALS							4		34	8			46
Mumban of Conses of Cumbili	0 70.7	010 7	Dam	0.010									
Number of Cases of Syphili Number of Cases of Gonor Number and Results of Ser Number and Results of Da Number and Results of Co Number and Results of Bac Number and Results of Co	rhoea ologio rkfiel rebro teriol	—Ma cal Te d Exa spina ogica	le 37, ests famina I Flu I Test	Fem or Sy tions id Te	ale 8 philis : 4 of sts: 3 Gono	: 423 f which of vecci:	of which	hich 1 were 1 wa	5 wer positi	re pos ve. sitive	sitive.		1 45

PROVINCIAL GAOL, Fort Saskatchewan, Alberta.

Total Number of New Cases of Venereal Disease Classified as to Sex and Age of Patient:

	Und 1			4 's.	5-1 Yı			19 rs.		rs. Over		Not ted	Totals
	M	F	M	F	M	F	M	F	M	F	M	F	To
Gonorrhoea (All Forms) Acquired—Latent										161			208 2
TOTALS			*****				1	31	17	161			210
Number of Cases of Syphil Number of Cases of Gonori Number and Results of Ser Number and Results of Cer Number and Results of Ba Number and Results of Ct	hoea- ologi rebro cterio	—Mal cal To spinal ologica	e 16, ests f Flui al Te	Fem for Sy d Tes sts fo	ale 19 philis ts: 0 r Gor	2 : 4,5' of w	70 of hich	which 0 wer 184 of	n 123 e pos	were sitive. ch 75	posi were	tive.	

PROVINCIAL GAOL, Lethbridge, Alberta.

Total Number of New Cases of Venereal Disease Classified as to Sex and Age of Patient:

										-			
	Uno			4 rs.		14 rs.		19 rs.		rs. Over	Age Sta	Not ated	Fotals
	M	F	M	F	M	F	M	F	M	F	M	F	To
Gonorrhoea (All Forms) Acquired—Latent							4		5 1				9
TOTALS							4		6				10
Number of Cases of Syphil Number of Cases of Gonor Number of Prisoners Adm Number and Results of Ser	rhoea itted-	-2,45	le 9 2.									ve.	1 9

PRIVATE PHYSICIANS REPORTING CASES

Total Number of New Cases of Venereal Disease Classified as to Sex and Age of Patient:

		1-4 5-14 Yrs. Yrs.			15-19 Yrs.		20 Yrs. & Over		Age Not Stated		Fotals	
M	F	M	F	M	F	M	F	M	F	M	F	To
					5 2 	43 1 2	24 2 1 2 1	305 5 1 27 3	44 1 1 1 16	22 1 2	8	453 9 8 4 48 3
		*****						5	1	1	1	7
							1					1
1			1	3	7	46	31	346	65	26	9	535
rhoea Provi th di illin 000,0	—Ma ince r stribu distri 000 U 000 U.	le 371 receivinted to buted Pro- Duar	l, Fering Corrivology Private Control of Private Co	nale a onsult vate l Privat G in	tative Physic e Ph	Serv cians: ysicia cous s	ice: 1 25. ns susper	16.	•			82 453
	M 1 1 M 1 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1	1 Yr. M F 1 is—Male 5 rhoea—Ma Province I th distribililin distrib illin distrib illin distrib	1 Yr. Yr M F M 1	1 Yr. Yrs. M F M F 1 1	1 Yr. Yrs. Y M F M F M 1	1 Yr. Yrs. Yrs. M F M F M F 1 1 5 3 2 3 2 3 7 is—Male 51, Fernale 31 1 3 7 rhoca—Male 371, Fernale 82 Province receiving Consultative th distributed to Private Physicallin distributed to Private Physical Physi	1 Yr. Yrs. Yrs. Yrs. Yr M F M F M F M F M 1	1 Yr.	1 Yr. Yrs. Yrs. Yrs. & C M F M F M F M F M F M 1 1 5 43 24 305 3 2 2 1 1 5 2 1 27 2 1 27 3 5 43 24 305 1 5 43 24 305 2 1 27 3 2 2 1 27 5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 Yr. Yrs. Yrs. Yrs. & Over M F M F M F M F M F M F 1	1 Yr. Yrs. Yrs. Yrs. & Over Sta M F M E M 2 1 1 1 1 <td< td=""><td>1 Yr. Yrs. Yrs. Yrs. & Over Stated M F M</td></td<>	1 Yr. Yrs. Yrs. Yrs. & Over Stated M F M

Number of Tablets of Penicillin Vee Oral to Private Physicians—72 (500,000 U.). Number of Capsules of Terramycin distributed to Private Physicians—128 (250 mgm. per capsule). NEW CASES OF SYPHILIS AND GONORRHOEA REPORTED IN ALBERTA—1957 Total Number of New Cases of Venereal Disease Classified as to Sex and Age of Patient:

10001 110111001 01 11011 01	Uno	der.	1-	4	5-1	14	15-	19	20 Y		Age		Ils
	1 1		Yı	rs.	Yı	rs.	Yı	S.	& C	ver	Sta	ted	Fotals
	M	F	M	F	M	F	M	F	M	F	M	F	Ĕ
Chancroid				1	3	8 2 	139	129 4 1 2 2	1 1323 13 2 44	640 1 2 3 23	23 1 	8	1 2272 11 18 7 73
Acquired-Tertiary									3	•••••	******		3
(Cardiovascular) Acuired—Tertiary		*****		*****	******			*****	6	1		1	8
(Neurosyphilis) Acquired—Tertiary		·						******		1	1		2
Type Undetermined									1				1
TOTALS	1			1	3	10	143	138	1393	671	27	9	2396
Total Number of Cases of Total Number of Cases of Total Number of Cases of	Symh	ilie	Male	80 E	emale	43.					*********		1 123 2,272

TOTAL NUMBER OF CASES REPORTED BY VARIOUS CLINICS OF THE DIVISION OF SOCIAL HYGIENE

Sex	Chancroid	Syphilis	Gonorrhoea	Total
MaleFemale	1 0	25 13	1,011 704	1,037 717
TOTALS	1	38	1,715	1,754

CASES REPORTED BY DOCTORS AND MILITARY AUTHORITIES

Prive	ate Physicians	Armed	Forces	Total
Syphillis	82 453		3 104	85 557
TOTALS	535		107	642

Total Number of Cases of Chancroid Reported in Alberta Total Number of Cases of Syphilis Reported in Alberta Total Number of Cases of Gonorrhoea Reported in Alberta	1 123 2,272
	2,396

Total Number of Cases of Chancroid Reported in Alberta exclusive of Armed Personnel Total Number of Cases of Syphilis Reported in Alberta exclusive of Armed Personnel... Total Number of Cases of Gonorrhoea Reported in Alberta exclusive of Armed Personnel

2,168 2,289

REPORT OF THE PROVINCIAL LABORATORIES

R. D. STUART, M.D., Director

During 1957 the Provincial Laboratories carried out 444,445 examinations, an increase of 47,512 over 1956. This increase is common to both laboratories, amounting in the Edmonton laboratory to 12%, in the Calgary laboratory to 9%. Noticeable increases were recorded in diphtheria and tuberculosis examinations and in gonorrhoea cultures at the Edmonton laboratory, in diagnostic histology at the Calgary laboratory and in antibiotic sensitivity tests at both laboratories.

Special Trends

Of particular interest is the decision of the Department of Public Health to build an extension to the Provincial Laboratory at Edmonton. This was begun in August and should be completed in about one year. The new building will provide space and facilities for the extension of Pathological and Bacteriological services especially in relation to hospital diagnostic work and to technician training. New services in relation to the diagnosis of virus infections are also planned.

The pandemic of Asiatic influenza must also be considered under this heading. A recurrence of infections with this new virus type is now a continuing probability and a trend to an increased incidence and seriousness of staphylococcal infections, referred to in previous reports, must be considered as a corollary. During the recent epidemic specimens were received from 17 patients who had died as a result of Asiatic influenza and staphylococcal pneumoniae was the terminal feature in a significant number of these deaths. The increasing importance of staphylococcal infections is also instanced in the 242 examinations recorded by the Southern laboratory for staphylococcal enteritis of infants. Dr. Shute emphasizes the value of these examinations to local practitioners.

After much discussion with the Provincial Health Units and the Division of Sanitary Engineering, it has been decided to bring the laboratory service for the bacterial examination of water supplies more directly under the control of established organizations. In future all water examinations will have to be referred to the Provincial Laboratories through established health organizations, and all laboratory reports will be sent directly to them. This will eliminate much of the confusion from the irregular and ill-controlled examinations carried out in the past for private individuals.

New or Supplementary Services

A service for the identification of the recently identified organism Haemophilus vaginalis was offered throughout the year. From May to December, 958 specimens were examined in the Edmonton laboratory by Dr. Amies who had made a special study of this organism. The incidence of positives, however, was only 1.25% and physician interest was minimal. Therefore, it has been decided that the extra expenditure in time and material is unwarranted and the routine service has been discontinued.

Eighteen technicians from various city hospitals received training experience from the Edmonton laboratory. This is beginning to take the form of special courses, but, more importantly, 1957 saw the beginning of an expansion of this service to smaller hospitals outside the city. One technician from Peace River received two weeks training in special hospital bacteriology. Increased use by Provincial Hospitals of the expanded training facilities of the Provincial Laboratory is expected within the new building.

During 1957 a significant expansion occurred in the distribution of sera and vaccines. This particularly involved the Central laboratory which sent out 75,110 packages compared with 33,893 last year. Poliomyelitis Vaccine and Influenza Vaccine accounted for the greatest proportion of this increase.

Regular Services

In Pathology the increase in diagnostic histology observed by Dr. Shute has already been recorded and is paralleled by equivalent numbers in the Central laboratory under Dr. Macgregor. The continuing value of this service is indicated by the fact that in Edmonton 911 cancers were thus diagnosed or confirmed and in Calgary 384 were similarly identified.

The increase in diphtheria suggested as a trend in last year's report has been confirmed this year in the Central laboratory by the isolation of 80 strains of virulent C. diphtheriae as compared with 43 last year. Almost 50% of these were of the gravis type which is reputedly of greater epidemic significance. An interesting observation was made on the gradual replacement of a virulent strain by a non-virulent strain of the same type in the closed community of a Boys' Home. The decision to relax quarantine precautions, made feasible by these laboratory findings, was supported by the absence of further clinical cases.

A very large outbreak of food poisoning in Red Deer, with about 200 cases, was investigated in the Central laboratory. Owing to the acute emergency only representative specimens could be obtained for examination but of about 60 specimens received 29 were positive for S. montevideo.

The cultural service for the diagnosis of gonorrhoea has extended considerably in the Central laboratory, 2,509 more examinations being carried out than in 1956. With the help of newly developed techniques the percentage of total positives now diagnosed by culture has risen from 83 in 1955 to 95 in 1957. In certain institutions such as the Fort Saskatchewan Gaol the percentage now diagnosed by smear alone has fallen to 0.5%. It may soon be possible to replace by cultural methods the tedious and unreliable smear investigation. Dr. Shute records the reopening of a similar service in the Southern laboratory and anticipates favourable results.

Staff

- Dr. G. O. Bain, who had been trained first under Dr. Macgregor in this laboratory and later in the United States, was appointed to the permanent staff as Assistant Pathologist on July 1, 1957.
- Dr. C. E. Iland who took up the post of Senior Assistant Bacteriologist on February 1, 1957 resigned at the end of May and returned to Britain. No replacement has yet been found. Considerable help, however, has been given by Dr. M. E. Williams, a British bacteriologist on a temporary one-year appointment.

TABLE 1 $\begin{tabular}{ll} \textbf{EXAMINATIONS} & \textbf{PERFORMED} & \textbf{IN THE PROVINCIAL LABORATORIES} \\ & \textbf{Year} & \textbf{1957} \end{tabular}$

CONTROL OF COMMON INFECTIONS		
	Edmonton	Calgary
Diphtheria Enteric-Dysentery Fungus Infections Intestinal Parasites Naso-pharyngitis Tularaemia Serology Tuberculosis Undulant Fever Serology Whooping Cough	5.486 2,117 263 9,982 1,721 11,298	1.296 2.517 126 85 1.569 897 2.157 897 24
OTHER DIAGNOSTIC AND MISCELLANEOUS		
Animal Inoculations (other than T.B.) Antibiotics etc. Sensitivities—disc tube Blood Cultures Leptospirosis Miscellaneous Paul Bunnell Test P.M. Bacteriology Referred Cultures Special Investigations Trichomonas Virus Infections	114,191 23 1,291 44 16,001 924 227 262 7,007 6,133	11 23,110 176 3,757 262 9 28 243
VENEREAL DISEASE CONTROL		
Chaneroid etc. Gonorrhoea—Smears Cultures Syphilis	12,187 6,408	6,273 284 36,679
SANITARY BACTERIOLOGY		
Food Products Milk and Cream Water Utensils	3,152 6,147	10 1,938 5,643 263
PATHOLOGY		
Diagnostic Cytology—blood smears bone marrows fluids Routine Diagnostic Histology—specimens Routine Diagnostic Autopsies Medico-legal Autopsies Referred Diagnostic Histology Pregnancy Diagnosis—Frog Test Rabbit Test	139 315 13,712 403 73 22 640 46	125 19 484 5,575 6
TOTALS	348,981	94,464

TABLE 2

CONTROL OF ENTERIC-DYSENTERY I	NFECTION	S	
EXAMINATIONS	Edmo	nt on	Colgony
Blood and Clot Cultures Facces Cultures Urine Cultures Other Examinations Serological Tests	4	26 24 13 32	910 677 30
DETAILS OF ISOLATIONS			
SALMONELLA S. typhosa S. paratyphosa B S. typhi-murium S. montevideo S. heidelberg S. thompson Other Salmonellae	 	20 2 38 27 5 6 4	7 1 3 2 7 2 19
SHIGELLA Shigella sonnet Shigella flexneri Shigella boydii 2	<u>6</u> 1	31 3	8 3
TABLE 3			
CONTROL OF TUBERCULOSIS EXAMINATIONS	S onton	Calgary	,
Microscopie 5, (positive) (3 Culture 3,	893 19) 499 422	992 (21) 804 361	
	Positive	No.	Positive
Pulmonary 4,231 Meningeal 70 Renal 639 Other 310	385 10 64 43	717 20 304 180	13 7 1
TABLE 4			
CONTROL OF SYPHILIS BLOODS	Edmoi	nton	Calgary
Examinations—Presumptive Kahn Standard Kahn Quantitative Kahn Wassermann (Kolmer)	95,03 9,92	32 21 97	29,641 2,875 185 3,079
CEREBRO-SPINAL FLUIDS Examinations—Wassermann (Kolmer)	. 1,47	70	200
Examinations—Wassermann (Kolmer) Blood and Cerebro-spinal Fluid "positive" to reaction Blood and Cerebro-spinal Fluid giving reaction below	62		899 159
PRE-MARITAL BLOODS	1,60		700 8,068
Positive to reaction	11,30	12	7
TABLE 5			
SANITARY CONTROL MILK AND (CREAM Edmoi	-4	G-1
MILK AND ICE-CREAM (No. of specimens)	1,82	21	Calgary 772
Coliform Test Plate Count Phosphatase	1.69	99	573 772
Butter Fat	25		329 250 14
TABLE 6			
SANITARY CONTROL WATER			
WATER (No. of specimens) Coliform Test—Presumptive Confirmed Special	. 2,15 . 1,06 . 77	99 58 54 77	Calgary 2,565 1,506 1,266 327
Plate Count Waters found Bacteriologically Unsuitable	. 2,14		2,544 962

TABLE 7

SERA AND VACCINES DISTRIBUTED

(All supplied by Connaught Laboratories unless otherwise noted)

IMMUNIZING AGENTS

	Edmonton	Calgary
Diphtheria—Diluted Diphtheria Toxoid—1 person	*****	13
2½ c.c. reactors	51	*****
Schick Test Toxin—25 person	400	284
Toxoid—1 person	476	350
6 c.c.	163	149
Diphtheria Combined—Diphtheria and Pertussis—1 person	303	457
9 persons	114	150
Diphtheria, Pertussis and Tetanus-		
1 person	7,817	5,152
9 persons	3,529	1,314
Diphtheria and Tetanus—1 person	963	809
9 persons	1.201	396
Enteric—Typhoid-Paratyphoid— 1 person	1.044	354
10 c.c	1.058	346
Enteric combined—T.A.B.T.— 3 c.c.	729	652
25 c.c.	87	
Measles—Anti-Measles—5 c.c.	2.761	2.541
Immune Serum Globulin—2 c.c.	3,002	_,
5 c.c.	3,449	
Rocky Mt. Spotted Fever (Lederle Lab.)—3 c.c.	5	12
50 c.c.	5	5
Smallpox— 1 point	4.070	2,995
10 point	4.655	2,713
Staphylococcal Infection—Staphylococcus Toxoid—2 c.c.	646	376
Tetanus—(see Diphtheria and Enteric combined)—	040	510
Tetanus Toxoid—1 person	508	410
Whooping Cough (see Diphtheria combined)—Pertussis	000	
Vaccine—1 person	225	244
9 persons	27	44
Vaccines, Other—Autogenous Vaccine (Prov. Lab.)—25 c.c	65	20
Rabies Vaccine—14 c.c.	27	
Poliomyelitis Vaccine	32.916	
Influenza Vaccine	1.512	
IIIIIuciiza Vaccine	2,014	******

THERAPEUTIC AGENTS

	Edmonton	Calgary
Diphtheria—Antitoxin— 1,000 units 10,000 units 20,000 units Gas Gangrene—Antitoxin—10,000 units Scarlet Fever—Antitoxin—3,000 units (syringe)	457 166 128 499 20 6	55 50 45 306
9,000 units (vial) 9,000 units (syringe)	15	
Snakebite Antivenin—(John Wyeth & Bros. Ltd.)—15 c.c Staphylococcus—Antitoxin—10,000 units	3 9 140	6 20
Tetanus—Antitoxin— 1,500 20,000 units 10,000 units 20,000 units	1,615 156 88	1,927 38 29

TABLE 8
MINIMUM COMMERCIAL VALUE ASSESSED FROM RECOMMENDED PROVINCIAL SCALES

			~ .		FD 4 - 1
Examination	Edmonton	Value	Calgary	Value	Total
Diphtheria	6,287	\$ 6,287	1,296	\$ 1,296	\$ 7,583.00
Enteric-Dysentery	5,486	10,972	2,517	5,034	16,006.00
Fungus Infections	2,117	6,351	126	378	6,729.00
Intestinal Parasites	263	263	85	85	348.00
Naso-pharyngitis	9,982	9,982	1,569	1,569	11,551.00
Tularaemia Serology	1,721	860	897	448	1,308.00
Tuberculosis	11,298	22,596	2,157	4,314	26,910.00
Undulant Fever Serology	1,721	860	897	448	1,308.00
Whooping Cough	24	48	24	48	96.00
Animal Inoculations (other than T.B.)	285	855	11	33	888.00
Antibiotics etc. Sensitivities-disc	114,191	22,838	23,110	4,622	27,460.00
tube	23	23			23.00
Blood Cultures	1,291	2,582	176	352	2,934.00
Leptospirosis	44	88			88.00
Miscellaneous	16,001	16,001	3,757	3,757	19,758.00
Paul Bunnell Test	924	1,848	262	524	2,372.00
P.M. Bacteriology	227	454			454.00
Referred Cultures	262	786	9	27	813.00
Special Investigations	7,007	21,021	28	84	21,105.00
Trichomonas		6,133	243	243	6,376.00
Virus Infections	394		arge allocated		
Chancroid, etc.	4	8			8.00
Gonorrhoea—Smears	12,187	12,187	6,273	6,273	18,460.00
Cultures	6,408	6,408	284	284	6,692.00
Syphilis	119,809	239,618	36,679	73,358	312,976.00
Food Products	28	56	10	20	76.00
Milk and Cream	3,152	6,304	1,938	3,876	10,180.00
Water	6,147	12,294	5,643	11,286	23,580.00
Utensils	2	4	263	526	530.00
Diagnostic Cytology—blood smears	213	426	125	250	676.00
bone marrow	139	278	19	38	316.00
fluids	315	945	484	1,452	2,397.00
Routine Diagnostic Histology—			~ ~ ~ ~	05 055	00 40= 00
specimens	13,712	68,560	5,575	27,875	96.435.00
Routine Diagnostic Autopsies	403	10,075	6	150	10,225.00
Medico-legal Autopsies	73	7,300			7,300.00
Referred Diagnostic Histology	22	220	1	10	230.00
Pregnancy Diagnosis-Frog test	640	3,200			3,200.00
Rabbit test	46	230	*****		230.00
TOTALS	348.981	498,961	94,464	148,660	647.621.00

DIVISION OF SANITARY ENGINEERING

H. L. HOGGE, B.Sc., P.ENG., M. EIC., Director

Prevention of disease by the control of environmental factors is the main function of the Division. The activities are carried out in four sections, i.e. Municipal Engineering, Stream Sanitation, Plumbing Inspections and Sanitary Inspections.

The Muncipal Engineering section checks the design and installation of new waterworks, sanitary sewerage and storm sewer systems, and the extensions to existing systems. They carry out inspections of systems and assist in system operation both by on the spot advice and by conducting two three-day "operator schools" each year.

The Stream Sanitation section maintains periodic checks on the quality of the water in the rivers of the province and evaluates the probable effect on a river of the waste from a proposed industry. Periodic checks are also made of the waste waters from existing industries in the province. It was significant that the "activated sludge" sewage treatment plant in Edmonton was in operation by the fall of 1957.

The Plumbing Inspection service provides inspection of plumbing installations in areas not under local inspection. They also assist local municipal inspectors on request and arbitrate referred disputes between local inspectors, plumbing contractors and owners. Inspection of plumbing in large industries and in "motel" installations was increased in 1957.

Provincial Sanitary Inspectors serve the portions of the province which are not included in "Health Units". Inspections are made of restaurants and other food handling establishments, dairy farms, milk plants, waste disposal grounds, construction and logging camps, trailer coach parks and complaints are investigated. Assistance is given to individual Health Units on request and investigations are made of appeals from Health Unit rulings.

The activities of the Division during 1957 are outlined below by section.

MUNICIPAL ENGINEERING

Much of the time spent in this field was devoted to checking design plans for new waterworks and sewerage systems and extensions to existing systems. Some time was given to the operation of existing systems in the form of assistance to the operators, i.e., by holding schools for operators and making suggestions on the spot during routine inspections of some of these systems.

The operator's school was provided for all operators of waterworks or sewerage systems in Alberta who wished to take advantage of it. The school was set up on a three-year program of which the first and second year courses were given in 1957. The plan is to rotate the three courses in a manner that will enable a town foreman to take all three courses in three years. Of the three courses given two would be held each year. The attendance at the two courses given in 1957 was approximately 90 and the interest shown by the men indicated that they should be continued.

The help given to the operators in the field has not been extensive but is definitely valuable. It was obvious during inspection trips which operators had attended our schools. As a general rule the good operators had attended one or more of our schools.

A number of sewage disposal plants were checked for efficiency during 1957 and in each case the results were reported to the secretary-treasurer. They were also advised whether or not the facilities were adequate and suggestions were made for improved operations.

Construction figures of new systems were up over 1956 while work on extensions showed a marked decrease.

The following tables are given to show the 1957 construction costs.

A. New Systems

Pro	ovisional		Final	
N	lumber	Estimated Cost	Number	Estimated Cost
Water Sewer Storm Sewer Totals	16	\$1,023,105.00 1,112,786.00 \$2,135,891.00	Water	\$1,166,880.00 893,900.00 372,955.00 \$2,433,735.00

B. Extensions to Existing Systems

	Provisional		Final	
	No.	Estimated Cost	No.	Estimated Cost
Water Supply and Treatment Sewage Treatment Water Mains and Sewers Storm Sewers	6 6 26 4	\$ 1,112,830.00 1,538,290.00 12,619,920.00 3,743,900.00	11 4 61 4	\$ 1,497,730.00 62,260.00 6,693,810.00 260,550.00
Totals	42	\$19,014,940.00	80	\$ 8,514,350.00

The 1957 spending on extensions to existing systems was 60% of 1956 spending. However, for the same two years there was twice as much spent on construction of new systems. The figure of \$4,000,000.00 which was spent in both 1955 and 1956 for water supply and sewage treatment facilities dropped considerably in 1957. The reason this figure for 1957 was only \$1,559,990.00 is because the cities of Edmonton and Calgary had finished the main extensions to their water and sewage treatment plants.

The big spenders in water and sewage works were naturally the larger centres of the province. Edmonton spent \$4,029,900.00, Lethbridge \$1,098,000.00, Jasper Place \$855,900.00, Red Deer \$659,900.00 and Calgary an estimated \$7,000,000.00 covered by provisional certificates.

The number of urban municipalities in Alberta which had water and/or sewer systems installed at the end of 1957 was 186.

Of these 168 had waterworks systems serving a population of 665,820 (1956 census), 59.2% of the provincial census and 172 had sewerage systems serving 666,426 people (1956 census) or 59.3% of the province. It is interesting to note also that 44 of these communities have a population of less than 400.

STREAM SANITATION

The periodic checks of the main rivers and review of proposed new industries was continued in 1957.

The quality of the water in the North Saskatchewan River was noted as being improved over that of recent years. The effect of industrial wastes was local to a few miles below Edmonton and although dissolved oxygen was depleted in the winter season at the first of the year, this was not so at the end of the year. This latter improvement mainly resulting from the operation of the new activated sludge section of Edmonton's main sewage treatment plant. Some further improvement in the methods of operating this plant are still to be effected, however the improvement on the river was quite appreciable in 1957.

The Bow River was still receiving raw sewage at Calgary at the year end, however the new "primary plant" will be in operation in February of 1958.

Tests on the Oldman River showed appreciable B.O.D. loads in the fall and indicate the desirability of having further information on this.

The South Saskatchewan River below Medicine Hat shows very low levels of pollution.

Studies and checks were also made of the Athabasca River downstream from the sulphate pulp mill at Hinton. Dissolved oxygen was not decreased appreciably. Odors of the effluent were noticeable for some 350 miles downstream, but not at a check point 420 miles downstream.

SANITARY INSPECTION

For the first time in the last several years no compulsory milk pasteurization by-laws were passed in the province. There are 38 such by-laws in effect in urban municipalities. A milk pasteurizing plant was installed in the Bowden Institute during 1957. This brings the number of plants supplying to schools and institutions to seven. No other new plants were established so that at the year's end the number of pasteurizing plants supplying milk to the public remained at 83.

The reports on samples obtained at milk pasteurizing plants and submitted to the Department of Agriculture, Dairy Branch Laboratory, were reviewed in the Division office. This review indicated that the operations of many of the plants were not always entirely satisfactory. In view of the dangers which may be associated with unsafe milk and the public reliance on pasteurized milk, it should not be unreasonable to expect that the operations of these plants should always be entirely satisfactory.

One meat canning plant was operated under the Provincial Board of Health Regulations for such establishments and was granted a renewal license. This plant was operated under the immediate supervision of the Local Board of Health of the City of Edmonton with co-operation from the Division of Sanitary Engineering.

Nine cemeteries completed the establishment procedure provided in the Cemetery Regulations and received Final Certificates of Approval. As part of the procedure the locations were inspected by the Health Unit concerned or by a Provincial Sanitary Inspector. The Division co-operated closely with the Department of Highways and individual Municipal Districts in regard to locations adjacent to provincial highways and district roads.

Survey plans for waste disposal grounds being established by municipalities throughout the province were referred to the Division by the Surveys Office of the Department of Highways. This co-operation made possible the inspection of the locations by the Health Unit concerned or by a Provincial Sanitary Inspector in cases where this had not already been done. In this way it was possible to ensure that new waste disposal grounds were established in suitable locations.

Local Boards of Health issued 11 restaurant closure orders during the year. This compares with 14 issued in 1956. In 7 cases (10), the required changes were made during the seven day waiting period and therefore the restaurant did not actually close. In one of the remaining cases (3) the improvements were made after closure and the restaurant was permitted to re-open. Three (1) were still closed at the year's end. (The figures in brackets are the comparative figures for 1956.)

The Division of Sanitary Engineering continued to employ three Provincial Sanitary Inspectors during the year. The service was reorganized early in the year when the Calgary office was closed and the Inspector moved to Edmonton. The extension of health unit services in the southern part of the province culminating in staffing of the Chinook Health Unit in 1957 made this change possible. The change in the Division's organization has made possible more balanced service to all parts of the province.

The Provincial Sanitary Inspectors continued the program of previous years designed to assist Local Health Authorities in dealing with sanitation matters. In all 1267 inspections were made which may be compared with the 1050 made in 1956. The increase may be attributed to the special services provided in the Hinton and Drayton Valley districts in the first half of the year. In these cases unusual numbers of inspections could be carried out without extensive travelling.

In view of the extensive outbreak of bacillary dysentery which had occurred in the Hinton district in 1956 and the danger of a renewal of the outbreak in 1957, the Division provided an intensive service in the area during the first half of the year. A Provincial Sanitary Inspector was active in the area every other week from late January to late March. The service was further intensified at this point as early spring was considered the

period of greatest danger. From late March to mid-May the service was on an every week basis. In mid-May a return was made to the every other week basis which was continued until early July when the newly formed Edson Health Unit took over.

The activities of the Provincial Sanitary Inspectors employed in the Hinton district were directed at food handling premises in the area. Trailer coach parks, construction camps and wood cutting camps also received close attention. The continuous efforts were rewarded by the adoption on a scale rarely realized of excellent food handling practices. Worthwhile improvements were also secured in construction and wood cutting camps and in the communal facilities in the trailer coach parks.

The large reduction in the transient population which occurred as construction at the pulp mill was completed, together with a general improvement in housing and sanitary conditions which took place in the area before the spring season, no doubt contributed to the disappearance of widespread dysentery. Nevertheless it is considered that the continuous efforts made by the Provincial Sanitary Inspectors played a significant part in the prevention of an outbreak similar to that of 1956.

The explosive growth in population in the Drayton Valley area following the establishment of an oil field in the district presented a number of sanitary problems. It appeared a Sanitary Inspector was needed in the area on a full-time basis. The staff of the Health Unit concerned was not large enough for this. The Division therefore stationed one of its Inspectors at Drayton Valley during the months of March, April and May. Frequent inspections were made in the trailer coach parks, industrial camps, restaurants, food stores, etc. The special service was discontinued at the end of May as it was considered the situation was no longer abnormal. Much sub-standard housing had been replaced by permanent dwellings by that time and many workers had left the oil field due to lessened activity.

A total of 97 inspections were made at dairy farms, milk pasteurizing plants and other milk handling establishments during the year. This is a considerable reduction from the 211 inspections in these classifications in 1956. It may be accounted for by the limited staff available for these inspections through a large part of the year and also by the reduced number of milk plants and dairy farms remaining outside health units. Because several of the plants inspected by the Division in 1956 were in health units in 1957, it is not possible to make a satisfactory comparison of the results achieved in the two years. However it is noted that two of the pasteurizing plants embarked on major programs of physical improvement while lesser changes were carried out in others in 1957.

Six hundred and forty inspections were made in restaurants and other food handling establishments in 1957 compared with 420 in 1956 and 290 in 1955. The increased number of inspections may give a false impression unless considered in relation to other factors. In 1955 the restaurant inspection program was deliberately curtailed to permit an increase in dairy farm inspections and other activities of the Division. A number of the restaurant

inspections in 1956 were made in the Hinton area as part of the program to combat the outbreak of dysentery in that district. The figure for 1957 includes the intensive services at Hinton and Drayton Valley.

Another feature of the year's activities were 200 inspections in dwelling categories. These included inspections in industrial and construction camps and trailer coach parks. Many of these inspections were in the Hinton and Drayton Valley areas and have already been referred to. A number of the inspections were made in other districts usually in response to complaints. In many instances the complaints were justified at least in part. Necessary instructions for correction were given.

One hundred and sixty-six inspections of wells, other private water supplies and sewage disposal systems were made during the year compared with 87 in 1956. The open fall permitted many visits to farm homes for this purpose. These inspections were usually made as a result of requests from the users or because of unsatisfactory laboratory reports. The advice which was given was usually much appreciated by the users.

In summary the Sanitary Inspectors employed by the Division provided an intensive service in one area as a precaution to prevent the return of communicable disease. In another area affected by sanitary problems brought on by industrial growth, a special service was provided. In addition the Provincial Sanitary Inspectors provided limited coverage of the more important matters in the field of sanitation throughout the parts of the province not served by city health departments or health units.

PLUMBING INSPECTION

The amount of plumbing which has been installed each year has shown a steady increase and 1957 was no exception to this upswing. The number of plumbing fixtures installed during 1957, as reported, indicates an increase of approximately 5% over 1956. The total number of fixtures installed was 69,598 which represents approximately 14 million dollars worth of plumbing installed during 1957. The number of individual types of fixtures installed was as follows:

Water Closets	18,601	Lavatory Basins	19.534
Baths	10,654	~	11,977
Laundry Tubs	1,927	Special Fixtures	6.905

The number of privies eliminated through the installation of plumbing was 1,185.

During the calendar year this office issued 204 plumbing permits at a value of \$2,274.90.

A refresher course for local plumbing inspectors was held in Red Deer during the week of April 8th to 12th and was attended by 27 inspectors representing towns and villages throughout the central and southern section of the province.

The Plumbing Inspectors of this Division lectured at a number of short courses as arranged by the Department of Agriculture, Division of Extension, for the benefit of farmers and urban dwellers. These courses were very well received and it is felt that the calibre of plumbing and private sewage disposal systems as installed by individuals and which does not come within the scope of the Provincial Plumbing and Drainage Regulations will be greatly improved.

This branch has devoted considerable time assisting plumbers and individuals with the design of a sewage collection system for trailer parks and in a number of cases has saved the owner considerable expense.

During the year it was necessary to arbitrate disputes between local inspectors and plumbing contractors. It was also necessary that assistance be given to local plumbing inspectors with regard to the inspection of large plumbing installations within their inspectorate.

The water consumption project which was commenced in 1956 was completed this year and it was very successful. It was learned that buildings such as schools require a large amount of water to be available for peak demand periods such as at recess or at the lunch hour. This water requirement can be satisfied if the well is capable of meeting the demand or if a cistern is included in the design of the plumbing system. The project also supplied information with regard to the pressure tank size necessary for the proper operation of a school water supply system.

The ground temperature measuring project which was commenced in 1956 was also completed in 1957 but this project was not as successful as was our hope at the time the project was started. We did learn some important facts from this project which will be of considerable value should a similar project be undertaken in the future.

It was noticed that the type of septic tank most commonly installed during 1957 was of the pre-cast concrete or the poured-in-place concrete type. This trend is probably due to such factors as the availability of pre-cast septic tanks as well as the availability of septic tank forms on loan from municipal offices. It is believed that this is a favorable trend and will result in a much more satisfactory system whose life will be considerably longer than if steel septic tanks had been used.

CIVIL SERVICE NURSE

K. E. JORGENSEN, R.N.

The year of 1957 brought the highest number on record for office and home calls.

The Asian 'flu which was at its peak in October was accountable for a very large increase. The home call requests for that month were more than double any other on record. The severity of the illness was greater in most cases and as a result the doctors were frequently called. We assisted Dr. Orford-Smith in giving 101 'flu vaccine inoculations.

The number of allergy cases has increased. Many with lingering respiratory effects, and many skin conditions.

The nervous and mentally ill patients also appear to be increasing in number. These cases take a great deal of our time regardless of them being under medical care and treatment.

We patch test the working contacts of active tuberculosis cases found in the service. We also patch test cases where symptoms would indicate it advisable.

The major accidental, the acutely ill and the communicable cases are generally given transportation, as their doctor requests. I either drive them to hospital, doctor's office or home if an ambulance is not necessary. There was a total of 87 cases this year.

The branch submits to the various departments "certificates of illness" for staff. In some cases the Heads of Departments request a certificate for a one-day absence (this depends on the individual) but as a rule one is asked for if the illness exceeds 3 days and not more than 6 days or involves a holiday. Some doctors dislike giving certificates—in such cases I have it confirmed by him by phone and write on the certificate the doctor's name who attended.

The following report will show the monthly figures for 1957 and the total figures for 1956 and 1957.

May 467 April 409 May 456 June 436	38 31	10 10 7	17 22 17
July 408 August 389 September 449 October 680 November 524 December 344 1957 5,576 1956 5,310	26 27 27 58 201 52 42 652	19 11 12 21 9 17 10	14 13 14 17 127 58 19

DIVISION OF ARTHRITIS SERVICES

R. K. THOMSON, M.D., Director

The Division of Arthritis, Department of Public Health, with Clinics in Alberta Jasper Building, Edmonton, and Holy Cross Hospital, Calgary, accepts patients up to the age of twenty-five years.

For the year 1957, the number of new patients and repeat patients is slightly lower than the average figure for the preceding few years. No conclusions can be drawn from this lower figure for one year, but it is still apparent that adequate early treatment is reducing long hospital stay and degree of permanent disability. It is again noted that the majority of patients who have reached the age of ineligibility are not requiring long hospitalization because they have reached the stage of stability which permits them to retain routines at home and under their private physicians.

There has been a further reduction in total hospitalization and this further strengthens the impression of former years that early and active care of the Rheumatoid Arthritic youngster reduces the overall cost to society by diminishing the need for hospitalization, and particularly long-term hospitalization care.

The provision of newer hormone preparations such as varieties of Cortisone and Hydrocortisone have been of material benefit to many patients. Where they are necessary, they would ordinarily mean prohibitive expense to many of the patients, and under the present system there is no deterrent to their necessary use. It is notable, however, that all patients do not receive these hormone preparations. They still remain a useful adjunct to the basic treatments in Rheumatoid Arthritis. The basic treatment consists of education of the patient plus the following of more simple routines involving rest and exercises and physiotherapy. It is still the experience of the Clinic that the distribution of these hormones by the Clinic has permitted better control and consultation with regards to their use.

STATISTICAL COMPILATION OF CASES TREATED IN 1957

	Edmonton	Calgary	Total
Initial examinations made	17	14	31
Repeat examinations made	153	30	183
1957—new Total Rheumatoid Arthritis cases under	12	11	23
the Division of Arthritis	98	43	141
Hospital Days	194	61	255
Physiotherapy treatments	171	119	290
Injections	27	, 33	60
Office Visits	16	78	94

TREATMENTS January 1st to December 31st, 1957

Hospital Days Clinic and Office Visits	255 308
Physiotherapy Otner: Including surgical, injections and special procedures	290 69
TOTAL TREATMENTS	922

DIVISION OF CEREBRAL PALSY CLINICS

F. G. DAY, M.D., Director

In 1957 the Cerebral Palsy Clinics in Calgary and in Edmonton continued to function on a twelve month basis. A considerable number of new patients were seen and placed under a therapy regime; also therapy was continued on those older cases who had known treatment earlier.

Emphasis has been placed on advancing methods of classifying the results of therapy in both clinics under a standardized system which will be adopted in all clinics across Canada so that we may be able to show what is occurring and hence obviate the waste of time spent with those patients who do not benefit sufficiently from treatment to warrant the time and the expenditure in carrying them on.

A very interesting research program has been functioning largely on a voluntary basis to attempt to establish the age of intra-uterine development at which the various types of cerebral palsy occur. If successful, an important result of this study could be in determining what causes are actually due to preventable instances at birth and after birth. The prophylaxis of this disease could very well be where the medical profession might render the most benefit.

The program inaugurated by the Provincial Department of Public Health to assist parents in the domiciliary care of their children who are victims of Cerebral Palsy where their care at the Clinic necessitates their residence in Edmonton or Calgary has functioned extremely well to the point where it has obviated the necessity of an in-patient type of clinic in the foreseeable future.

A report elaborating our statistical accomplishments for the year 1957 follows:

Edmonton Clinic

During 1957, 53 Examining Clinics were held with a total of 511 examinations. There were 51 new cases seen with 37 diagnosed as cerebral palsied of which 3 were acquired, 3 pending further investigation, and 11 miscellaneous.

Patients on Active Treatment

There were 116 cerebral palsied cases that benefited from treatments on a rotating basis. Of these, 44 were new cases and 15 were children who were excused from the regular school hours, opportunity classrooms, or attended after school hours. The average monthly number of cases who received treatments or instructions throughout the year was 44.

Physiotherapy

The total number of treatments given during the year has been 3,093 with 78 different cases being seen.

Progress

Ralance:

- 3 showed improved co-ordination and concentration
- 2 achieved balance on all fours (prior to crawling)

6 achieved balance in sitting

Walking:

3 progressed to walking with help (unbraced)

2 progressed to walking in walker 2 progressed as far as walking in bars

2 progressed as far as walking with use of crutches 5 progressed as far as walking with use of canes 4 progressed as far as walking unaided.

General improvements:

eral improvements:
5 showed minor gait improvement
18 showed considerable gait improvement

26 had deformities reduced

9 gained better group muscle control

3 gained improvement of general muscle control

1 showed minor activity increase

few made progress in several (directions)

10 showed no progress

Bracing:

10 were braced for control for the first time

4 had bracing reduced 4 had bracing removed.

Occupational Therapy

The Occupational Therapist has seen 62 different cases and given 1,583 treatments. Average number of cases benefiting from monthly treatments was 14. Of this total, 47 were learning mainly self-help skills of feeding and dressing. The majority of this group were learning dressing skills only. All showed improvement but due to the young age group learning this particular skill, none have, as yet become completely independent.

16 showed improvement in feeding skills:

(a) Total indepe		3
(b) Improvement		12
(c) No improven	nent	1
Special skills: 6		
(a) Floor loom		1
(b) Writing skil	ls	1
(c) Typing skills	S	1
(d) Electric sew		3

Following Surgery: 6

Speech Therapist

A total number of 42 cases were treated during 8 months in 1957 that we had the services of a Speech Therapist. Total treatment sessions were 1,583, with a monthly average of 18.2 cases being seen.

Respirator therapy was carried out in 8 cases (athetoids).

Three hearing aids were fitted and one child gained admittance to the School of the Deaf, one child discharged from School of the Deaf and resumed treatment.

School

Children at the Cerebral Palsy Clinic School include those of pre-school as well as school age.

Fifty-nine attended during the year for periods varying from 1-5 months; of these eighteen were under six years of age, eight showed advancement academically and socially; the remaining ten have not the mental ability to concentrate when in a group.

There were 19 in the Reading Readiness category; 9 were successfully promoted to Grade I, 6 of them to regular schools and 3 were being taught at home by the Roving Teacher. The remaining ten having severe handicaps making them slow learners.

Instructional testing was carried out with these children and records kept of their abilities and achievements.

Ten children attending regular schools in this area of Alberta were taught supporting activities at Grade I level, the work being remedial. Similarly 4 children in Grade II received remedial instructions and in all cases the regular classroom teachers co-operated to assist in this work. These teachers also sent reports on the children's problems and progress to the Clinic before and after their attendance here. Two severely handicapped girls completed Grade II in the Clinic class. The other six pupils attended for regular school work one each in Grade III, IV, VI, VIII for one month each while receiving therapy; and two in Grade VI for 5 months.

Patients on Home Management: 100

Correction or application of orthopaedic appliances Surgery	
Referred to the Organization for Retarded Children	1
Referred to Provincial Training School at Red Deer	15
Admitted to School for the Deaf	1
Re-admitted from School for the Deaf	1
Transfer to Calgary	1
Deaths	3
	4

Braces:

Dilateral law law bases with 1		
Bilateral long leg braces with knee locks and back support	-2	
Bilateral long leg braces with knee locks and pelvic band	6	
Bilateral long leg braces with knee locks and ball bearing joints	1	
Bilateral long leg braces with knee locks	12	
Unilateral below knee braces	27	
Unilateral below knee night braces	8	
Unilateral long leg night braces		
Casts	13	
Casts	6	
Pelvic bands	2	
Twisters	3	Dr.
Jury mast	1	
Fibreglass cock-up splints	10	
Fibreglass supination splints	10	
	4	
Shoulder splints	1 1	pr.
Shoe corrections	4	
	76	
Repairs or adjustments	67	

INSTRUCTIONS AND FILM "A DAY IN THE LIFE OF A CEREBRAL PALSY CHILD" SHOWN TO:

113 Student Nurses

17 Scoond-year Physiotherapy Students 16 Public Health Nursing Students from University of Alberta 20 Beta Sigma Phi Xi Chapter members

INSTRUCTIONS TO

1 Teacher 1 University Student 3 Medical Officers from Health Units 7 Public Health Nurses

LECTURE BY DOCTOR AND FILM, "A DAY IN THE LIFE OF A CEREBRAL PALSY CHILD":

Public Health Nursing Students from University of Alberta Student Nurses at Royal Alexandra Hospital First and Second Year Physiotherapy Students

CALGARY CLINIC:

During 1957, 43 clinics were held with a total of 202 examinations. There were 43 new cases seen with 36 diagnosed as cerebral palsied, 3 pending further investigation and 4 miscellaneous.

Patients on Active Treatment:

There were 78 cerebral palsied cases that benefited from treatments on a rotating basis. Of these, 24 were new cases and 54 were re-admissions. The average monthly number of cases who received treatments or instructions through the year was 36.

Physiotherapy:

The total number of treatments during the year has been 3.351 with 67 different cases being seen. The monthly average benefiting was 27.

Progress:

Number who progressed	37
No progress	25
Regressed	5

Occupational Therapy:

The Occupational Therapist has seen 64 different cases and given 3,141 treatments. Monthly average benefiting was 23.

Progress:

Number who progressed	54
No progress	7
Regressed	3

Speech Therapy:

A total number of 55 cases were treated during 1957. Total sessions were 3,174, with a monthly average of 23 cases being seen.

Progress:

Number who progressed	47
No progress	8

The Calgary Public School Board supplied the services of a school teacher during 10 months of the year. Total instructions were 1,815 with 34 cases benefiting and average monthly attendance 18.

dance 10.				
Ungraded Grade I Grade II	14	Grade III Grade IV		3
Patients on Home Ma	nagement:	120		
Surgery	Deaf	Red Deer		1
Braces:				
Bilateral long leg braces Unilateral short leg braces Unilateral Perlstein type nig Bilateral Perlstein type nig Bilateral gutter type night s Buttock support Hand splints Wrist splints Wrist splints Wrist cuffs and belts Special chest and spinal or Brace adjustments and rep Shoe corrections	ght splints			16 1 2 2 1 2 2 2 2 4 4 1 71
Instructions:				
Student Nurses Public Health Nurses Medical Health Officer High School Students Physiotherapy Internes Parent education programs Parents (other than those re Film "A Day in the Life of	by the staff	truction at examinati	on clinics)	33 1 47 6 2
	STATISTICAL	L SUMMARY		
Name to a City of		Edmonton	Calgary	Total
Number of Clinics Total Examinations For Diagnosis For Review Cases on Active Therapy New Patients Re-admissions Cases receiving Physiothera Cases receiving Speech Ther Cases receiving Speech Ther Cases receiving Speech Ther Cases receiving Domiciliary Cases receiving Domiciliary Total days Domiciliary Alio Total Days	py 1 Therapy apy t Allowance wance	511 51 460 116 44 72 78 62 42 59 100 29	43 202 43 159 78 24 54 67 64 55 34 120 19	96 713 94 619 194 68 126 145 126 97 93 220 48 4,276
Total Days		2,658	1,618	4,276

DIVISION OF TUBERCULOSIS CONTROL

G. R. DAVISON, M.D., Director

The almost miraculous decline in the tuberculosis mortality rates, and the remarkable recoveries brought about by the development of drugs and resultant progressive improvement in surgical techniques is an impressive tribute to medical science. For 1956 the Alberta's death rate of 3.8 per 100,000 was the lowest provincial rate in Canada. For 1957, however, the tentative rate is over five.

Although it is true that the tuberculosis death rate is at an all time low, we must keep in mind that the number of new active cases discovered each year has not shown any phenomenal decline. In 1954—494 active cases were discovered. In 1955—482. In 1956—500, and 1957—565. The 1957 figures are not a true picture, as they include forty-six (46) Hungarian refugees. Forty-one (41) more refugees were classed as inactive. There remains a large section of the population which is infected, and unless diligently searched for, many will develop symptomatic disease with all that it entails. We must therefore view the future with guarded and sober optimism, and continue the search for those who are infected. The average number of cases admitted to Sanatoria over the four years 1953-1956 was 675. In 1957 the number was 718. When the above mentioned refugees are subtracted the previous four year average still maintains.

Clinic Services

The armamentarium in the fight to prevent and control the disease consists of stationary clinics at the sanatoria and mobile x-ray surveys of the general population in the summer seasons and surveys of the employees in industry in the winters, x-ray units in the provincial gaols to take chest films of all admissions and x-ray units in the city halls in Calgary and Edmonton, where anyone can attend. Many employers are making use of these units for pre-employment films of prospective employees. Tuberculin testing of students in the schools by the Health Units, city Medical Officers of Health, Municipal and District nurses is used. The other members of the families of students who react to the test are also tested and x-rayed. The skin testing of food handlers in the Health Units and x-raying of the positive reactors is also a part of the control program. Chest x-ray films of general hospital admissions are also used in finding cases of disease. During 1957 calendar year 172,747 people received some form of clinic service.

In the preventive field the B.C.G. Vaccination Program, which has been in force for several years, is being broadened in scope. This applies particularly to the north of the province, where the hazard is greatest. It is also advised for all infants of Indian blood extraction, and in families with long histories of tuberculosis.

Further advances toward the goal of eradication of this disease can only be achieved by the increased use of the diagnostic facilities which are available to everyone.

To make the various control programs really effective requires the assistance of all public spirited citizens in every community.

Treatment Services

The demand for sanatorium beds has shown a gradual increase over the years, but with the new drugs and advances in surgery the average stay of patients is shorter.

In 1949 the first year the non-pulmonary cases were accepted, 1,023 pulmonary and non-pulmonary cases were treated. 1951—1,059; 1953—1,156; 1955—1,201; 1956—1,184; 1957—1,206. This 1957 figure is much less when the refugees are subtracted, and gives a truer picture of the problem in the resident population. The average stay in the sanatorium has gradually decreased—1953—293.6; 1955—281.6; 1956—286; 1957—251. The incidence of disease is much less in the south half of the populated areas, consequently there are vacant beds in the Baker Memorial in Calgary, but a short waiting list persists at the Aberhart Memorial Sanatorium.

Training of Nurses and Medical Students

With the decline in contagious diseases very few nurses in training have the opportunity of a tour of duty in isolation hospitals. This lack has been partially corrected through the courses in the sanatoria for affiliate students from the general hospital training schools. At the same time they gain some insight into the various aspects of tuberculosis both from didactic and clinical teaching. Student nursing aides also receive part of their training at the sanatoria.

Medical students attend at the Aberhart Memorial on Wednesday afternoons during the session for lectures and clinics. The stress during the latter being placed on physical diagnosis. A few students who have finished their third year are attached to each sanatorium during the summer vacation.

Educational Program

Instruction to all school grades and commercial classes is given by well qualified teachers. The main objective of the classes is to carry on the education of those who were attending school at the time of admission so that they will not lose school time. In this way they will have as good a standing for their age on return to school as the other pupils. Teaching of some along certain lines with a view to their rehabilitation takes a very important place in the work also.

Occupational therapy is also an important adjunct to treatment. It is looked upon as educational rather than diversional, and sometimes is the basis for rehabilitation of the patient on discharge from hospital.

Rehabilitation is closely connected with the educational program. The rehabilitation offices of the Alberta Tuberculosis Association at the sanatoria work very closely with the school teachers and occupational therapists. The educational, occupational and rehabilitation programs are fully appreciated by everyone concerned and have proven their worth many times.

Acknowledgments

Our sincere thanks are extended to everyone who has contributed to the operation of the Tuberculosis Division and the Sanatoria.

Grateful acknowledgment is extended to voluntary organizations, branches of the British Empire Service League and private individuals who have taken such a kindly interest in the patients and have contributed to their welfare.

Our grateful appreciation is extended to the medical superintendents and the staffs of the sanatoria for their willing cooperation and valuable services throughout the year.

DIAGNOSTIC CLINIC

1.	STATIONARY CLINICS	Number Sessions		Cases of Active NonPul.	Total Examin- ations
	Baker Memorial Sanatorium	97	32	6	5.255
	Aberhart Memorial Sanatorium	103	68	11	5.625
	Calgary	44			169
	Camrose	5	2		135
	Drumheller	12	****		201
	Lethbridge	12	2		690
	Medicine Hat	12			550
	Red Deer	9			310
	Vegreville	5			141
				—	
	TOTAL	299	104	17	13,076
		_		_	
	OTHER CLINICS				
	*Miscellaneous Total All Clinics		193 297	3 20	8,425 21,501

In addition to the above 317 newly discovered cases of active tuberculosis there was also discovered 477 cases of inactive tuberculosis.

Tuberculin Testing and X-ray Surveys (Conducted by Public Health Nurses, Teachers, Business Firms, etc.)

	No. Tbn. Tested	No. X-rayed
Edmonton School Board		239
Public Health Nurses		28
Provincial Laboratory		123
Red Cross Blood Transfusion Service, Calgary		4
Red Cross Blood Transfusion Service, Edmonto		47
Nursing Aide Trainees		477
Industry and Business		379
University Students, Calgary and Edmonton	596	589
Bethany Hospital, Calgary		62
School Survey (see page 2)	16,690	1,105
Technical School, Calgary	1,240	69
TOTAL	18,528	3,122

Total number known to have been given service 20,223 i.e. number x-rayed plus number tuberculin tested, but not x-rayed.

^{*}Films sent in from various points and paid for by the Tuberculosis Division.

²a. Number out-patient Streptomycin injections (Aberhart Memorial Sanatorium and Baker Memorial Sanatorium)-1,942.

74

DEPARTMENT OF PUBLIC HEALTH

	2h.—SCF	HOOL S	KIN T	ESTING	SURVEY		New C	0000
	No.	No. Tested No. Reactors		No. X-rayed		Tub.		
	School	Contacts	School	Contacts	School	Contacts	Active	Inactive
Alberta East Central H.U. Athabasca Health Unit Barons Eureka H.U. Grade Nine, Calgary	720	29	15 141	10	45(45) 2(2) 7(2) 141	7(7) 4(4) 5 8(8)	ī 	2 1 2
Chinook H.U. Drumheller H.U. Edson H.U. Edmonton		10	63	i	4(4) 5(5) 4(4) 33(7)	4(4)		ï
Foothills H.U. Grande Prairie H.U. Jasper Place H.U. Leduc-Strathcona H.U.	688 526	33	24 11 66	4	20(20) 53(50) 6(3) 56(2)	9(9) 8(7) 9(2) 60(1)		1
Medicine Hat H.U. Minburn-Vermillon H.U. Mount View H.U. New Brigden	1,391	46	9	10	48(42) 11(11) 22(22) 7(1)	17(11) 6(6) 21(21) 1		1
Peace River H.U	1,532	148 44	95 54	24	108(24) 5(5) 5(1)	20(4) 6(2)	1	3 1 3
Stony Plain-Lac Ste Anne Sturgeon H.U Sunnynook Vegreville H.U.	458	13 5 4	5 7 2	7	13(13) 16(16) 7(2) 9(8)	35(33) 15(15) 1 3(3)	1 	2
Wetoka H.U. Youngstown School of Agriculture	341	86	27	22	185(167) 5(5)	41 (15)	2	1
Fairview Canadian Union College Lacombe			2	400	1 (1)	6(6)	5	20
TOTAL	16,110	580	522	166	819(462)	286(158)	5	20

Figures in brackets indicate number of persons x-rayed under this program whose Tuberculin Test results have not yet been reported to the Division.

Tuberculin Test results have not yet	been re	eported to the Division.	
		UNIT SURVEYS	
	lumber		Number
	-rayed		X-rayed
Alder Flats	480	Mannville	
Andrew	1,769	Marlboro	
Athabasca	2,020	Marwayne	
Boyle	803	Mercoal	
Breton	759	Minburn	
Breynat	129	Mundare	
Bruderheim	588	Muskeg River	
Buck Creek	156	Myrnam	
Buck Lake	268	McLaughlin	
Buffalo Coulee	351	McMurray	
Calling Lake	225	Namao	
Calmar	1,628	Newbrook	
Camrose	4,652	Niton	
Camrose (Rosehaven)	695	Paradise Valley	
Caslan	199	Peers	
Chipman	574	Perryvale	
Clandonald	426	Plamondon	
Claresholm	2,352	Radway	
Colinton	442	Ranfurly	
Derwent	769	Raymond	
Devon	1,019	Red Deer (P.T.S.)	
Dewberry	609	Redwater	
Drayton Valley	1,831	Rivercourse	
Duffield	503	Rochester	
Edson	2,600	Seba Beach	
Egremont	207	Smoky Lake	
Entrance	98	Stavely	
Entwistle	533	St. Michael	
Evansburg	638	Stony Plain	
Foothills	161	Sundre	
Fort Macleod	2,470	Tawatinaw	
Genesee	311	Thorhild	
Grassland	614	Thorsby	
Hairy Hill	661	Tomahawk	662
Hays	425	Two Hills	1,690
Hinton	1,813	Vauxhall	1,787
Hylo	150	Vegreville	
Imperial Mills	135	Vermilion	
Innisfree	703	Wandering River	128
Islay	306	Warburg	837
Jasper	1,701	Warspite	500
Kitscoty	816	Waskatenau	
Lamont	1.171	Waterways	212
Lavoy	442	Wildwood	509
Leeshore	251	Willingdon	969
Lindale	276	Winfield	717
Lodgepole	330	TOTAL	. 81,954

ANNOAD ILE	OILI,	1001			10
Industrial Mobile Unit, Calgary 6.026 Industrial City Hall, Calgary 752 School Survey City Hall, Calgary 188 City Hall, Calgary 6.299 City Hall, Edmonton 6,923	Lethbr Fort S	rial Mobile idge Gaol Saskatchewa	n Gaol	······································	228 1,178
City Hall, Edmonton 6,923	GI	RAND TOI	'AL		.06,509
SUMMARY MOBILE	UNIT S	SURVEYS			
Number X-rayed 106,509 Probable Tuberculosis Active 75 Probable Tuberculosis Inactive 552 Further Examination Requested 880 Non Tuberculosis Chest Conditions 856 Undiagnosed (including 311 spoiled films) spoiled films) 313 Pleurisy Active 1 Pleurisy Inactive 234 No Disease 103,598	(253	previously previously	discovered)	
	CC ANTO	CIIDVEVO	,		
4.—SUMMARY CLINI	CS AND		otal Numb	n Eveni	nations
Stationary Clinics Other Clinics Surveys (excluding Mobile Unit and Scl School Surveys Mobile Unit Department of Indian Affairs and Nort Hospital Admission Program	nool Surv	eys)		13,076 8,425 3,533 16,690 106,509 6,756 17,758	acions
TOTAL				172,747	
5.—SOURCES OF DISCOVERY N	EW CAS	ES OF TUE	BERCULOS	SIS	
	4000	~	4055	~	
Clinics	644	56.8	794	60.7	
Referred for admission, family doctor Surveys	212	56.8 18.7 .6	204	15.6	
Referred by Department of Veterans					
Referred by Department of Veterans Affairs or National Defence Provincial and Hospital Laboratories Hospital Admission Films Other Sources Ladion and Northern	16 23	1.4 2.0	17	1.3	
Hospital Admission Films	139	12.3	107	8.2	
Other Sources	10	.9	46	3.5	
Other Sources Department of Indian and Northern Affairs (includes 108 Treaty Indians 1957)					
Indians 1957)	82	7.2	126	9.6	
TOTAL	1,133		1,307		
The following table sets forth the programs actually referring the cases admission to Sanatorium beds for the e	sources to the establishin	of discovery Tuberculosis	y giving costs Clinics and costs.	redit to and for	
Fire Deader	1956	% 34.1	1957	%	
Family Doctor	111	34.1 9.8 13.3 11.0	396 131 133 108	10.0	
Hospital Admissions Contacts	151	13.3	133	10.2	
Department of National Health	121	11.0			
and WelfareSchool Surveys	70	6.2 2.5	79 25	6.0 1.9	
Department of Indian and Northern					
Affairs	101 7	8.9 .6	124 30	9.5 2.3	
Department of Veterans Affairs and National Defence	25	2.2	21	1.7	
Provincial and Hospital Laboratories	21	1.9	11	.8	
Laboratories Old Age Pension Survey X-San Other Provinces or Countries	6	1.9 .5 7.8	74	 5.7	
Hungarian Refugees			87	6.7	
Hungarian Refugees Other Sources Gaol	12	1.1	87 49 9 30	3.7	
City Hall Units			30	2.3	
TOTAL	1.133		1,307		
6.—CLASSIFICATION OF NEW CASES OF Minimal Moderately Advanced Far Advanced Primary Tuberculosis Pleurisy with effusion and Non-Pulmonary Tuberculosis	evidence	of previous	pleurisy	. 622 . 252 . 79 . 93 . 156	OSIS
TOTAL				1,307	
Number newly discovered cases active					
Number newly discovered cases inactive	tubercul	osis		. 742	
Number of cases reactivated Number of non-residents diagnosed tube	erculosis	(includes		. 55	
79 immigrants and 87 Hungarian 1	Refugees)	***************************************			
Number known contacts of newly discovery Number known contacts checked	vered case	es		2,155	75.9%
rumber known contacts checked			****************	. 1,000	10.70

OLD TUBERCULIN 1957

Dilution No. 2	Number of B BMS 133 795 37	AMS 30 406
Dilution No. 4	965	436
In addition to the above, Patch Tests were sent to Nurses and Family Doctors upon request. The Tuber	culosis Divisio	n recom-

rearies and Farmy Doctors upon request. The Tuberculosis I mends, however, that the Mantoux Test be used as often preference to the Patch Test.

	B.C.G. VACCINATIONS 1957	2
1.	Nurses (a) Graduates	3
	(b) Students	534
	(c) Other Nursing Personnel	1 38
2.	Other Hospital Personnel	38
3.	All Other Persons (a) Newborn Contacts	13 30
	(b) Adults and Children, Contacts	
	(c) Adults and Children, Not Contacts	106
	TOTAI	725

INSTITUTIONAL REPORT

	Baker Memorial Sanatorium	Aberhart Memorial Sanatorium
Patients under treatment January 1, 1957	220	268 396
Number transferred in during 1957		2
Number treated during 1957	543	666
Number discharged or died during 1957	355	409
Number transferred out during 1957		
Number discharged, transferred out or died 1957	35 7	410
Number of patients under treatment December 31, 19	57 186	256
Number of patients under treatment in Alber January 1, 1957		488 718
Number of admissions during 1957	·	
Number of patients treated in Alberta during 1957		206

DIAGNOSIS OF PATIEN	T ADMISSIONS	
	Baker Memorial Sanatorium	Aberhart Memorial Sanatorium
Non-tuberculous	0	17
For diagnosis	73	19
Pleural effusion	6	9
Tuberculosis inactive		11
Primary tuberculosis	13	45
Non-pulmonary tuberculosis:		
Bone		10
Genito-urinary		16
Adenitis		14
Addison's Disease		1
Pelvic		9
Meningitis		6
Abscess		1
Erythema induration		1
Taenosynovitis		2 2
Skin		1
Bursitis	******	1
Minimal		47
Moderately advanced	66	122
Far advanced	51	58
Miliary	1	5
TOTAL	322	396
Number with positive sputum on admission	64	89
Number with negative sputum on admission		207
Number negative on admission, positive later		77
Number of readmissions during 1957	65	102
Number both admited and readmitted during 1957	3	13
Number left against advice during 1957	7	54
Number of patient days 1957	77.676	96,144
Number of patient days in other provinces under rec	ciprocal agreement	2.819
Number of patients in other provinces, January 1,	1957	8
Number of admissions in other provinces under reci	procal agreement	14
Total number of patient days including those in other	er provinces under	
reciprocal agreement		176,639
Number of institution patient days provided for nor	n-residents in Alberta	
under reciprocal agreement		
Number of patients in Alberta Sanatoria, non-resident	ents under reciprocal	
agreement, January 1, 1957		9
Number of admission, non-residents, under reciproca	al agreement	11

OPERATING 1	ROOM R	EPORT		
		Baker Memorial Sanatorium	Aberhart Memorial Sanatorium	Total
Thoracoplasty-		39	9	48
Number of 1st stages			9	32
Number of 1st stages Number of revisions		2		2
Number of cases Number of cases Aspirations of chest		29	9	38
Aspirations of chest		37 15	10 33	47 48
Bronchoscopy		36	38	74
Cystoscopy and pyelogram		18	8	26
Casts		16	11	27
Implantation D.O.C.A. Lobectomy and decortication		8	8 3	16 3
Lobectomy		26	7	33
Lobectomy and thoracoplasty			1	1
Lobectomy and wedge resection		 1	1	1
Nephrectomy Pneumonectomy		÷	5 3	6
Segmental resection		3	13	16
Thoracoplasty and lucite pack		4		4
Orthopaedic operations		23	10	33
Miscellaneous examinations and procedures		338	31	369
TOTAL		621	209	830
SUMMARY PNEUI	MOTHOR	AX CASES		
	Bake			
	Memor	rial Memoria rium Sanatorii	21 5 1 4	Total
TT 1 / American Company			ım	**
Under treatment beginning of year	. 3	7 2		10 3
Number of new cases during year Number cases under treatment on admission				
Number cases discontinued	. 2	9	****	13
Number cases transferred out of Alberta		1	****	6 1
Number transferred to other sections				
of Division			•	
	2	5		7
Number under treatment end of year		4		6
Unsuccessfully attempted			****	
Resident	. 19	9		28
Out-patient		102		112
	29	111		
	29	111		140
SUMMARY PNEUMO	וסידו מימים	ATTENTION CONCUE		
Under treatment beginning of year		NEUM CASES	7	48
Number of new cases during year		6	,	11
Number of cases under treatment on admission	1		1	1
	7.4			
	14	38	8	60
Number discontinued	. 11	25	7	43
Number transferred out of province				
Number transferred to other sections		1		4
of Division	·			_1
	11	26	7	44
Number and a treatment and of secon				
Number under treatment end of year	. 3	12	1	16
Resident	. 176	372		548
Out-patient		339	67	496
	266	711		1 044
	200	(11	67	1,044
Patients are receiving pneumoperitoneum refit	ls at the	following out	tside points:	
Beaverlodge I	Lethbridge	e	St. Paul	
	Vermilion		Westlock	
Lac La Biche	Peace Riv	ei		

NUMBER DISCHARGED ON DRUGS 1957

	Baker Memorial Sanatorium	Aberhart Memorial Sanatorium	Total
Isoniazid and Para-amino Salicylic Acid	137	182	319
Isoniazid and Streptomycin	6	31	37
Streptomycin and Para-amino Salicylic Acid Isoniazid, Streptomycin and Para-amino	5	2	7
Salicylic Acid	8	14	22
Isoniazid	5		5
TOTAL	161	229	390

LABORAT	TORY REPORT		
	Baker Memorial Sanatorium	Aberhart Memorial Sanatorium	Total
SPUTUM EXAMINATIONS:			
Positive		568 2,441	1,209 5,882
TOTAL	4.082	3.009	7,091
URINE EXAMINATIONS		7,855	16,885
BLOOD EXAMINATIONS:			
Blood Counts		4,429	9,359
Sedimentation Rates		2,815 874	5,857 1,051
Blood Sugars			1,001
TOTAL	8,149	8,118	16,267
MISCELLANEOUS:			
Pleural Fluid		46	52
Spinal Fluid		338 14	352 22
Gastric Analysis Culture		1.506	3.396
Guinea Pig Inoculation		1,172	1,476
Other		919	3,458
TOTAL	4.761	3.995	8.756
WASSERMAN REPORT:		0,000	0,100
Positive	6	4	10
Negative	321	316	637
TOTAL	327	320	647
Basal Metabolism Rate		33	33
Cardiograph		97	97
DENTA	L REPORT		
Number of patients (individuals)	364	566	930
Number of treatments	57	596	653
Number of prophylactic treatments		22	111
Number of fillings Number of extractions	146 164	259 269	405 433
Number of new dentures and repairs	104	43	53
X-RAY DEPA	RTMENT REPORT		
Baker Memorial Sanatorium	Aberhart Memorial Sanatorium	Total	Total Grand Total

	Baker Memorial Sanatorium In Pts. Out Pts.		Aberhart Memorial Sanatorium In Pts. Out Pts.		Total	Total Out Pts.	Grand Total
RADIOGRAPHS MADE:	2.4 2 00.	Out I ts.	111 1 13.	Out I ts.	III F ts.	Out Fis.	
Chest—Full Size	1,659	1.174	1.831	529	3.490	1.703	5.193
Miniature	245	5.113	1,001	7.366	245	12.479	12,724
Ribs	1	******		1,300	1	12,413	2
Pelvis	25	16	34	46	59	62	121
Extremities	92	128	42	33	134	161	295
Spines—Cervical	8	2	6	5	14	7	21
Dorsal	61	80	39	28	100	108	208
Lumbar	71	8	31	27	102	35	137
Skull	8	3	2		10	3	13
Sinuses	5		7		12		12
F.P. Abdomen	8	3	13	1	21	4	25
G.B. Series			3		3		3
G.I. Series	6		1	1	7	1	8
Barium Enema	******		17		17		17
Intravenous Pyelogram	21		31	17	52	17	69
Retrograde Pyelogram	16		6		22		22
Sinogram	4.4		16	1	16	1	17
BronchogramOrdographs	14		36	3	50	3	53
	85	4	90	16	175	20	195
TY YY TO	58	2	104		162	2	164
36 4 13	2	1	******		2	1 '	3
Cl 172	2				2		2
(1)	9	11			9	11	20
C11!-1		10			7	10	17
Esophagus	*****	3				3	3
Urogram	1				1	******	1
orogram				1	******	1	1
TOTAL	2,404	6,558	2,309	8,075	4,713	14,633	19,346
Fluoroscopic							
Examinations	281	121	1 255	0.000			
Films received for	401	121	1,357	3,996	1,638	4,117	5,755
Interpretation		10,415		1: 10#			
Basal Metabolism Rate		10,415		15,495			25,910
Cardiograph		19		******			10
Audiogram		7					19
		- (*****			7

CLASSIFICATION OF DISCHARGED PATIENTS

			Resid	dence				
		On Admission	31 days or less	Over 31 days		On di	scharge	
	•	rannasion	OI less	or days	In.	AI.	AU.	D.
1.	For diagnosis	125	79	46	5	9		5
2. 3.	Primary Tuberculosis Reinfection type pulmonary tuberculosis clinical:	78	4	74	36	41		1
	Minimal	83	10	73	39	41	3	
	Moderately advanced	100	16	84	53	44	3	
	Far advanced	23	10	13	12	5	1	5
		1		1	1			
	Miliary	*		•	_			
4.	Reinfection type pulmonary							
	tuberculosis positive:	10		12	4	11		
	Minimal	12			21	65	1	2
	Moderately advanced	89	1	88	27	66	2	30
	Far advanced	125	10	115		CO	2	2
	Miliary		2	4	3	1		2
5.	Tuberculosis pleurisy			12	2	10		
6.	Non-pulmonary Tuberculosis	:						
	Abscess Plombage Space.	1		1	1			
	Adenitis	26	2	24	4	22		****
	Bone	17	1	16	9	8		
	Erythema Induration	1		1				
	Genito-urinary		4	21	11	13		1
	Meningitis	8	2	6	6			2
	Pelvic	23	4	19	9	14		
		1	•	1	1			
		4	1	3	2	2		
	Skin		1	3	1	2	****	
	Taenosynovitis			3	1	2		
	Uveitis		22	1	0.40	240	10	49
	tal active tuberculosis	€39	67	572	240	346	10	43
Tot				618	193	349	3	28
Tot	tal untreated		146		52	6	7	20
Gra	and Total	764			245	355	10	48

EXPLANATION OF ABBREVIATIONS AND TERMS USED

The standard classification is that of the National Tuberculosis Association. Minimal, Moderately Advanced and Far Advanced refer to anatomical extent of disease.

In		
AI	Active	improved
		nimproved
D		Died

N.B. Only those in residence over 31 days are classed as "treated".

N.B. 1 patient admitted as a tuberculosis case was found to be non-tuberculous which accounts for the apparent discrepancy in the above table.

CLASSIFICATION ON ADMISSION OF 764 DISCHARGED PATIENTS

	Baker Memorial Sanatorium	Aberhart Memorial Sanatorium	Total
For diagnosis	79	46	125
Primary tuberculosis	34	44	78
Pulmonary tuberculosis	197	242	439
Tuberculous pleurisy	4	8	12
Non-pulmonary tuberculosis	41	69	110
TOTAL	355	409	764

CLASSIFICATION ON DISCHARGE OF TREATED CASES OF ACTIVE TUBERCULOSIS TUBERCULOUS PLEURISY

	On admission Number	On di Improved	scharge Unimproved	Died
Minimal	85	84	1	
Moderately advanced	172	110		2
Far advanced Primary	128 74	73		1
Miliary	5	5		
Non-pulmonary tuberculosis	96	96		
Tuberculous pleurisy	12	12		****
TOTAL	572	542	3	27

SUMMARY

Residence of Discharged Patients	Baker Memorial Sanatorium	Aberhart Memorial Sanatorium	Total
Cities	202	160	362
Towns	30	75	105
Counties	19	5	24
Villages	12	28	40
Enlarged Municipal Districts	40	36	76
Local Improvement Districts	44	85	129
Special Areas Board	2		2
Non-resident	6	20	26
	***********		Nonemark .
TOTAL	355	409	764

SEX OF DISCHARGED PATIENTS	Baker Memorial Sanatorium	Aberhart Memorial Sanatorium	Total
Male	196	215	411
Female	159	194	353
TOTAL	355	409	764
AGE ON ADMISSION			
Under 1 year From 1 - 9 From 10 - 14 From 15 - 19 From 20 - 29 From 30 - 39 From 40 - 49 From 50 - 59 From 60 - 69 From 70 and over	18 70 75 43	4 51 27 28 98 98 59 38 47 31 26	4 96 35 46 168 134 81 92 70 38
TOTAL	355	409	764
SOCIAL STATUS OF DISCHARGED PATIENTS Single Married Divorced Separated Widowed	140 184 7 13	184 187 1 8 29	324 371 8 21 40
TOTAL	355	409	704
RESIDENCE IN ALBERTA Born in Alberta 1 year or less 1 - 5 years 6 - 9 years 10 - 14 years 15 - 19 years 20 - 29 years 30 or more years	131 60 37 20 20 10 23 54	220 15 32 26 14 7 38 57	351 75 69 46 34 17 61
TOTAL	355	409	764
LENGTH OF STAY IN SANATORIUM DEATHS: Number in Sanatorium under 31 days Number of patient days Average Patient days Number in Sanatorium 31 or more days Number of patient days Average Patient days 1. DISCHARGES:	7 57 8.1 9	13 155 11.9 19 12.537 659.8	
Number in Sanatorium under 31 days Number of patient days 1. Average number patient days Number in Sanatorium 31 days or more Number of patient days 75,	12.2 244 536 311.2 355 791	31 502 16.2 346 87,986 254.2 409 101,180 247.4	126 1,663 13.2 590 163,522 277.2 764 191,971 251.1

DIVISION OF MENTAL HEALTH

R. R. MACLEAN, M.D., Director

Administration:

Progress has been made in developing and integrating the preventive and treatment services of the Mental Health Division. The Provincial Guidance Clinic Services have been expanded and the institutional treatment and rehabilitation services have been improved. Plans have been laid for further improvements in the immediate future.

The detailed reports of the services mentioned above follow:

PREVENTIVE SERVICES:

Provincial Guidance Clinics:

The full-time Clinics in Edmonton, Calgary and Lethbridge increased their work-loads during the year. The Red Deer and Ponoka Clinics, staffed by the Training School and the Provincial Mental Hospital, also increased their over-all work-loads. Favourable results were reported in all the Clinic treatment programs.

During the year, in addition to the work done in the actual Clinic Centres, 35 outside points were visited. The latter service was largely diagnostic, but included the making of recommendations in individual cases.

The Clinics dealt chiefly with children in the categories of the emotionally disturbed and otherwise maladjusted. There was some reduction in the percentage of the mentally retarded examined. The over-all number of emotionally disturbed children under treatment in the various Clinics at any particular time was approximately 30.

All Clinics participated in public education activities. Included in the latter were talks, panel discussions, lectures, workshops, institutes and radio and television appearances.

The Clinics assisted in the follow-up work with discharged Mental Hospital cases. There was close cooperation also with the Cerebral Palsy and other Health Clinics. Reports and recommendations were submitted to the appropriate authorities.

Separate reports of the various Clinics follow.

PROVINCIAL GUIDANCE CLINICS

Provincial Guidance Clinic, Edmonton

The year 1957 shows numerous staff changes with the loss of trained personnel, which caused a curtailment of the number of times points in the area were visited. Only one trip was made to the Peace River-Grande Prairie area.

New cases examined number 969, which is 77 less than were seen in 1956. Re-registered cases totalled 340, an increase of 55 over the previous year. The net decrease in the case load, in spite of the reduced number of trips by the Clinic to country points was 22. The total work load increased by 738 periods to an all time high of 8,024, indicating more intensive work being done in the training of staff and work with patients and their relatives. Most of the treatment cases continued to come from the area of Greater Edmonton.

Age and Sex Distribution—The ratio of male to female cases was 1.64:1. Of all new cases 92.66% were under the age of 20 years. Of these 36.9% were in the five to nine age group, while 26.11% were in the 10 to 14 age group.

Classification of Types of New Cases—There continued to be an increase in the number of severely disturbed children in the early age range of those seen in this Guidance Clinic. There was a decrease in the number of mentally defective children of all ages, from 26.9% to 21.05% of the total case load.

Educational Activity—This continued at a high level to community organizations, Nurses and Medical Students, amounting to a total of 89 periods. A drop of 68 periods in this field is accounted for by the increasing work in mental health education carried out by the Alberta Mental Health Association.

City of Edmonton—The total number of new cases examined amounted to 582, while 283 were re-registered during the year. The total work load was 6,800, an increase of 1,362 over the previous year, with an increase of 90 in the total case load for the City of Edmonton.

Edmonton Rural—In this area 70 new cases were seen and four were re-registered, amounting to a work load of 129.

Barrhead-Westlock—From this area 22 new cases and two re-registered cases were examined for a total work load of 64 periods, which represents a net decrease of 20 cases from 1956.

Lamont-Smoky Lake—New cases examined in this area amounted to 35, while no re-registered cases were seen, totalling a work load of 75 periods.

Camrose-Killam—In this area 37 new cases and two reregistered cases were seen for a work load of 76 periods. This is an increase of two cases.

Wainwright-Holden—No Clinics were held in Holden in 1957, although two new cases from this area were examined in the Edmonton Clinic. Wainwright had 16 new cases and 7 cases

were re-registered for a work load of 89, resulting in a net decrease of four cases.

Wetaskiwin—In this area 24 new cases and five reregistered cases were examined for a work load of 75 periods, this being a net decrease of 7 cases.

Athabasca-Lac La Biche—One Clinic was held in each point, at which 19 new cases and five re-registered cases were examined for a work load of 64, and a net decrease of five cases.

Bonnyville-St. Paul-Two Hills—Two Clinics were held in each point, at which 42 new cases and 13 re-registered cases were examined, for a work load of 169 and a net increase of six cases.

Vegreville-Vermilion—At Clinics held in these centres, 52 new cases and 3 re-registered cases were examined for a total work load of 164. This amounted to a net decrease of 30 cases.

Peace River-Grande Prairie—One trip of two weeks' duration was made into this area, during which time 68 new cases and 16 re-registered cases were examined for a work load of 319 and a net decrease of 76 cases.

PROVINCIAL GUIDANCE CLINIC, PONOKA

During 1957 Clinics in this area were attended, as is customary, by a Psychiatrist, a Psychologist and a Social Worker from the Provincial Mental Hospital staff. Clinics this year were held at Ponoka, Stettler, and Castor. Thirty-nine new and seven re-registered cases were seen, with a work load of 125. Some cases were seen at the request of private physicians, but the majority were referred through the Schools and Health Units.

PONOKA-RIMBEY

A Health Unit is now operative in the Town of Ponoka and this has taken over the work of organizing the Clinics. One formal Clinic was held in Ponoka during the past year and a number of other cases were seen at intervals upon request. There were no Clinics held in Rimbey, the cases from that district having been brought to Ponoka.

STETTLER-CASTOR-CONSORT

Three Clinics were held at Stettler and Castor; no Clinics were requested for Consort. Thirteen new and seven reregistered cases were seen.

PROVINCIAL GUIDANCE CLINIC, RED DEER

The Provincial Guidance Clinic at Red Deer has again shown a yearly increase in its work load.

In addition to purely Psychotherapeutic interviews, Physical therapy was also carried out at the Municipal Hospital with the giving of Electro-Convulsant therapy on 24 occasions. Patients were also seen on a consultative basis by the Clinic Psychiatrist at the request of the family Physicians at the Municipal Hospital. During the year there were 117 new referrals seen and treated—an increase of 19 patients over the last year.

The number of interview hours was increased by 100, making a total of 659 interviews. Of the new cases, some 69 were children and 48 were adults.

Play therapy interviews were continued.

Interviews:

During the year the following numbers of Guidance Clinic interview hours were carried out:

Psychiatrist	375	hours
Psychologist	292	hours
Social Worker	24	hours
Medical Officer	2	hours

In addition to these interviews, 62 Psychometric examinations were done.

Extra Clinic Facilities

The Guidance Clinic Staff have continued their availability for public discussions and talks to such groups as Service Clubs, Home and School Associations and Women's groups. In this field, also, there was an increase from 12 talks being given the previous year to 18 being given this year.

PROVINCIAL GUIDANCE CLINIC, CALGARY

There have been no important changes in the operation of the Calgary Zone of the Provincial Guidance Clinics during the past year. The Clinic is still without the services of a full-time psychiatrist. Only one rural clinic was held, as clients from the area surrounding Calgary are usually able to attend the Clinic in Calgary with relatively little inconvenience to themselves. Psychologists from the Calgary Clinic spent a total of 41 days working in the Lethbridge Zone as the Lethbridge Clinic does not yet have the services of a full-time psychologist.

Two hundred sixty-seven new cases (151 male and 116 female) were examined, an increase of 17 from 1956. One hundred seventy-one cases were re-registerd, 19 less than last year. The total work load was increased by 129 periods to a total of 3,120, this despite the fact that the Clinic was short-staffed for five months during the year. Eighty-one per cent of the new cases were under the age of 19. Medical practitioners, school authorities and Child Welfare agencies each referred approximately 13% of the new cases. Thirty-eight per cent were referred either by relatives or by the patients themselves. Psychotherapy was recommended for 58 cases. The number of mental defectives examined in 1957 was 63.

Calgary:

During the year 260 new cases were examined and 171 cases were re-registered. The work load was 3,101. The number of new cases and the total work load increased slightly during 1957.

Drumheller:

A two-day Clinic was held in Drumheller in February. Seven new cases were examined with a total work load of 19.

PROVINCIAL GUIDANCE CLINIC, LETHBRIDGE

During the greater part of the year the Clinic functioned with the full-time services of the psychiatrist and the receptionist, with part-time assistance from a psychologist from the Calgary Guidance Clinic and a summer relief worker. Some assistance was also received from the psychologist of the Attorney General's Department.

The Clinic moved into new and commodious offices in August which have facilitated the work greatly.

During the year 241 new cases were registered and 78 cases were re-registered.

City of Lethbridge:

Two hundred and six new cases were examined and 54 were re-registered. This was a substantial increase over the previous year's activities.

Medicine Hat:

Thirty-two new cases were registered and 24 were reregistered.

Other centres including Pincher Creek, Coleman, Raymond and Claresholm were visited by the Clinic. Three new cases were seen from the Crow's Nest Pass.

Provincial Gaol:

At the request of the Gaol Authorities 50 prisoners were examined and reports and advice submitted concerning these.

PROVINCIAL AUXILIARY MENTAL HOSPITAL, RAYMOND

The Clinic psychiatrist visited this hospital a number of times. All patients were examined and advice and suggestions for treatment were offered.

Public Education

Talks were given Service Clubs, Religious Groups, Home and School Associations. Members of the Clinic staff also participated in Radio, Television and Panel discussions. A number of lecture and demonstration courses were given also.

Court Services

The Clinic psychiatrist has rendered valuable service to the local courts, including the Children's Court. The local and Royal Canadian Mounted Police authorities were also given service and assistance.

SUMMARY OF NEW AND REREGISTERED CASES EXAMINED, TREATMENT PERIODS, INTERVIEWS. PSYCHOLOGICAL EXAMINATIONS, AND TOTAL WORK LOAD OF CLINICS TABLE 1

CLINIC DISTRICTS	Z	NEW CASES		RE-REGI	RE-REGISTERED CASES	CASES	DI	STRIBUTION	DISTRIBUTION OF WORK		TOTAL
	M	Ŀ	L	M	Ŀ	H	Pat.	Col.	Gen.	P.E.	LOAD
Edmonton and District	602	367	696	500	131	340	2,370	2,989	П		8,024
Calgary and District	151	116	267	06	81	171	1,010	1,419	403	288	3,120
Lethbridge and District	167	74	241	42	37	62	712	815			1,905
Ponoka and Red Deer District	162	22	156	24	22	46	574	283			964
TOTALS	666	634	1,633	365	27.1	636	4,666	5,506	2,058	1,783	14,013

Notes: Total new cases examined since the Clinics opened in 1929 is now 20,961.

Edmonton and District includes all the area served from Wetaskiwin north. It includes Clinics held in the Peace River-Grande Prairie area, and such points as Athabasea, Barrhead, Bonnyville, Holden, Lee La Biche, St. Paul, Two Hills, Vegreville, Vermilion, Wainwright, Westlock, and Wetaskiwin. Calgary and District includes the area served south of Didsbury, excluding the Lethbridge area. It includes Clinics held at such points as Didsbury, Drumheller.

Lethbridge and District includes the area in the far south of the province, with Clinics held at such points as Medicine Hat, Fort Macleod, Claresholm, Cardston and the Crow's Nest Pass.

Cochrane, High River and Strathmore.

Ponoka and Red Deer District includes the area from Didsbury on the south to Wetaskiwin on the north. It includes Clinics at such points as Castor, Ponoka, Deer, Rimbey, Rocky Mountain House and Stettler.

Re-registered cases are those that have been examined previously at a Clinic, and are seen again for further consultation and/or treatment

Pat.-Patient contacts including treatment periods.

as well includes It Gen.—General contacts regarding Clinic activities and work, including those with other Agencies and Community Services. Col.—Collateral, or contacts with a patient's parents, or relatives, or with others closely interested. and teaching periods by staff members.

talks and addresses,

P.E.—Psychological examinations and tests.

Total Work Load-This is the sum of the periods of work noted under each of the four headings Patient, Collateral, General and Psychological examinations.

TABLE 2
AGE AND SEX CLASSIFICATION OF NEW CLINIC CASES

AN	MU	AL REPORT, 1957	
ES	T	04444444444444444444444444444444444444	100.0
PERCENTAGES	Ē	4,022 8,022 8,003,000,000,000,000,000,000,000,000,00	100.0
PER(M	8.5.6.01 8.6.6.01 8.6.6.11 1.6.6.11 1.6.6.11 1.6.6.11	100.0
	H	222 402 202 203 242 243 243 260 260 260 260 260 260 260 260 260 260	1,633
POTALS	[zı	223 223 201 201 201 201 201 201 201 201 201 201	634
I	M	133 3755 2665 101 31 26 16 17 7	666
RED	T	11884 100 100 100 100 100 100 100 100 100 10	156
PONOKA and DEER DISTR	দ	08 10 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	77
PONOK	M	2000 4 20 4 L L L L L L L L L L L L L L L L L L	62
JE ICT	1	10001 1 1 0 0 0 4 1 0	241
LETHBRIDGE AND DISTRICT	Ēų	2001 2011 2001 2011 2011 2011 2011 2011	74
LET	M	18800000 F 1822 I	167
CT	T	80 4 8 8 11 1 0 0 0 4 4 8 8 1 1	292
CALGARY AND DISTRICT	ĮΉ	118337 12837 14837	116
AND	M	23081 240404421010	151
ICT	H	1100 1223 1223 133 130 100 100 100 100 100 100 100 10	696
EDMONTON ND DISTRIC	[In	901 902 902 902 903 903 903 903 903 903 903 903 903 903	367
ED	M	40000000000000000000000000000000000000	602
AGE GROUP		0 · 4 / 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6 /	TOTALS

DIAGNOSTIC CLASSIFICATION OF NEW CLINIC CASES—PRE-SCHOOL GROUP (0 to 5 years 11 months) TABLE 3A

Nature of Case	Edn	Edmonton and District	and	Ca	Calgary and District	pı	Leth	Lethbridge and District	nd	Ponol	Ponoka and Red Deer District	Red		Totals	
	M	[±,	1	M	Ĺt.	F	M	Į.	T	M	দ	L	M	দ্র	F
Educational Problem with Adequate Intellect Intellectual Inadequacy Enclored Insorder Thinking Disorder Thinking Disorder Speech Disorder Faulty Feeding Habits Steep Disturbance Sexual Difficulties Sexual Difficulties Paychoneruroses Psychoneruroses Psychoneruroses Psychoneruroses Normal Child Undiagnosel	04700400414088800	84.000000400440	28884 000 000 100 100 100 100 100 100 100 10	ФФФФФФФФФФФФФФФ	нопососной	F0040HH000000H	QUALO000000000000000000000000000000000000	пносоонососойс	040000000000000	H400000000000	оммооооооноооо	0000000000000	0888 0800 0000 0000 0000 0000 0000 000	946 0000100001080	33 688 683 33 33 10 11 11 12 22 22 22 22 22 10 10 10 10 10 10 10 10 10 10 10 10 10
TOTALS	140	82	222	4	21	63	50	<u> </u>	29	6	9	15	211	118	329

DIAGNOSTIC CLASSIFICATION OF NEW CLINIC CASES-SCHOOL AGE GROUP (6 years to 18 years 11 months) TABLE 3B

Nature of Case	Edm	Edmonton and District	pu	Calga	Calgary and District		Lethbi	Lethbridge and District	7	Ponoke	Ponoka and Red Deer District	t		Totals	
	M	Ē	T	M	Ĩ4	H	M	[T4	E	M	Ē4	E	M	Eq.	H
Educational Problem with Adequate Intellect Intellectual Inadequacy Emotional Disorder Thinking Disorder Speech Disorder Speech Disorder Speech Disorder Steep Disorders Sexual Difficulties Psychoneuroses Psychoneuros	145 172 100 100 100 100 100 100 100 100 100 10	1448,0800880001084	180 180 180 180 180 180 180 180 180 180	2750110000000000000000000000000000000000		88888888888888888888888888888888888888	126 126 126 126 126 126 126 126 126 126	11130000011134	22 II 3 I 3 O O O O O O O O O O O O O O O	жно обина обража	мяноння пончем	8111 855480058880148	1153 1143 125 100 100 100 100 100 100 100 100 100 10	69 22 22 20 20 20 20 20 20 20 20 20 20 20	288 286 286 286 286 287 200 200 200 200 200 200 200 200 200 20
FOTALS	423	257	089	8.7	61	148	66	47	146	22	27	82	664	392	1,056

DIAGNOSTIC CLASSIFICATION OF NEW CLINIC CASES-ADULT GROUP (19 years and over) TABLE 3C

Notities of Case	Edm	Edmonton and District	pu	Calg	Calgary and District	đ	Lethb	Lethbridge and District	g	Ponok	Ponoka and Red Deer District	t		Totals	
induite of case	M	[In	H	M	[Iz4	E	M	[#	F	M	H	f-	M	स	H
Educational Problem with Adequate Intellect Intellectual Inadequacy Emotional Disorder Thinking Disorder Speech Disorder Speech Disorder Sheep Distributions Sleep Distributions Anti-Social Trends Sexual Difficulties Paychoneurosis Psychoneurosis	L 1 1 1 0 0 0 0 0 4 4 4 1 0 0	mou100010014000	04240001041188000	©10000001141001		<u>8010000111000404</u>	00000000000000000000000000000000000000	H4000000000000000000004	H 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ншоноооноо4шнон	04m4000000 W rowow	HLW0000H00000404	221 221 2000 2000 2000 2000 2000 2000 2	######################################	0.000000000000000000000000000000000000
TOTALS—Table 3C Table 3B Table 3A Table 3A	39 423 140	257	680	824	<u></u>	148	86.02	18 47 9	146	9	27	82 15	124 664 211	124 392 118	1,056 329
GRAND TOTALS	602	367	696	151	116	267	167	74	241	19	7	156	- 666	634	1,633

SOURCES REFERRING NEW CASES TO THE CLINICS

Referring Source	Edm	Edmonton and District	pu	Call	Calgary and District	p	Leth	Lethbridge and District	pu	Ponol	Ponoka and Red Deer District	Red		Totals	
	M	년	T	M	H	T	M	ম	T	M	দ	L	M	[II	T
Schools and School Authorities Private Doctors and Medical Clinics	239	98	337	88	15	35	31	16	69	331	48	38	343	136	479
Medical Clinics, as Rehabilitation, Cerebral Palsy, T.B., O.P.D.	33	24	22	10	10	8	10	හ	00	-0	0	0	48	37	85
Health Units, Medical Health Officers, Public Health Nurses	53	31	84	13	10	23	16	9	22	4	7	Ħ	98	54	140
Child Welfare Agencies, Provincial and Municipal	6.1	54	115	17	18	35	9	ෆ	0		0		82	75	160
Juvenile and Family Court, Juvenile Offenders Branch, Bowden Institution	Ħ,	13	24	00	40	4,0	800	0	8	HC	00	70	15	17	32
Provincial Gaois, Aduit Courts Parents, Redatives, Friends and Self Department of Public Health	68	69	131	50	40	101	350.	1DQ1	2000	100	2000	280	146	124	270
Other Sources	4	ຄ	6	00		n —	17"	7	٥	7	n	4,	17.	1	707
TOTALS	- 602	367	696	151	116	267	167	74	241	79	4	156	686	634	1,633

NOTES: Provincial and Municipal Welfare Agencies will include Provincial and Civic Child Welfare or Children's Aid Departments, and Voluntary or Private Welfare Agencies, such as those supported by a Community Chest, Service Clubs, and protective Homes.

T.B.—Tuberculosis; O.P.D.—Outpatient Department of a Hospital.

M-Male F-Female T-Totals

TABLE 5
MAJOR RECOMMENDATIONS MADE IN REGARD TO NEW CLINIC CASES

	Edm	Edmonton and District	nud	Call	Calgary and District	P	Leth	Lethbridge a District	and	Ponol Dee	Ponoka and Red Deer District	Red		Totals	
Recommendations	M	[Zi	F	M	[34	F	M	দ	F	M	Ţ	1	M	Ţ.	T
Admission to: (a) Mental Hospital (b) Provincial Training School	36	23.3	19	120	10	222	151	123	30	_ w 4	H®	41-	22 70	20	120
Placement in: (a) Protective or Correctional Home or Institution (b) Foster Home	19	24	43	3.22	000	6 02	00	70	NN	00	00	00	23	8	19
Educational Advice: (a) Modified School Program or Special Class Placement (b) Vocational Counselling		322	159	1362	71000	127.4	28 1 28	200	40	വരവ		0470	143	69 41	212 84 139
Modified Home Management Referred for Medical Treatment Treatment in Guidance Clinic Other Recommendations	109	18888	175 77 215 46	12329	333	7 7 8 2 8 8 8 8 8	31 16 9 45	207.0	43 16 65 65	32	143	2021	199	165	364 364 157
TOTALS	602	367	696	151	116	267	167	74	241	79	112	156	686	634	1,633

I-Male F-Female T-Totals

SUMMARY OF THE NUMBER OF MENTAL DEFECTIVES EXAMINED, BY YEARS TABLE 0

mulative tals	UD To	1867	2,001											
rcentage New ses	10		40.6%	41.9%	21.9%	13.2%	21.4%	20.0%	22.7%	18.1%	22.2%	23.6%	25.0%	20.7%
	T		134	204	250	196	347	252	292	275	335	371	405	338
Totals	(zı		129	122	100	103	140	124	131.	118	152	155	160	154
	M	1946	129	127	150	93	207	128	161	157	183	216	245	184
n, ncy	T	nined to	18	33	36	16	2	6	9	26	25	47	48	41
Unknow al Deficie Indicated	R	es Examined	-6	14	12	2	0	9	5	7	12	17	21	23
I.Q. U Mental Ind	M	Defectives	6	19	24	6	2	cc	4	19	13	30	27	18
to 75 Morons	F	Mental	83	125	133	117	228	155	208	170	218	222	234	201
51 bly	Çx,	Number of	43	48	47	63	80	70	96	89	85	50	000	86
I.Q. Proba	M	Nu					ì							115
50 ciles	H		56	42	67	32.	8	89	67	69	S CC	000	יוו	72
Im]	[Eq	-		14	33	20	40	, K.	32	30	43	400	46	32
I.Q. 2d Probably	M	-	16	200	3.5	27	44	22.	38	38	35	17	2 2	40
o 25 Idiots	T		_4	7 7	14	1	33	38	110	101	70	- 0	200	24
I.Q. 0 to 2 Probably Idi	ͱ,	-		1 -	4 04	0.4	100	130	27	7	4 4	10) H	13
I.Q.	×	-	c	10	200	0 00	200	2 6	- 1	- 0	00) II	3 6	11
						中,几日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日		660000000000000000000000000000000000000						
Year			1040		1947	1948	1949	0061	Icel	7061	1953		1955	

Notes: I.Q.—Intelligence Quotlent

M—Male F—Female T—Totals

ACTIVE TREATMENT MENTAL HOSPITALS

The Provincial Mental Hospital, PONOKA
The Provincial Mental Institute, EDMONTON

The Provincial Mental Hospital, PONOKA, and The Provincial Mental Institute, EDMONTON, have completed the first full year during which the former received patients from the Southern half of the Province only, and the latter received patients from the Northern half only. There were very few exceptions to this arrangement.

The Provincial Mental Hospital admitted 692 (including readmissions). The Provincial Mental Institute admitted 836 (including re-admissions). The Provincial Mental Institute admitted 140 remand cases during the year, whereas the Provincial Mental Hospital admitted only 10 remand cases. It is interesting to note that the overall difference (144) in the number of admissions to the Provincial Mental Hospital and the Provincial Mental Institute is approximately the difference between the number of remand cases admitted to the two institutions. The trend of the Provincial Mental Institute to admit more cases has continued in 1957 and appears to be related to this fact that this hospital admits many more remand cases.

The discharge rates of the two institutions are almost identical and is approximately 82% of the admission rate.

Both active treatment hospitals report very beneficial results from the use of tranquilizing drugs, as evidenced by decreased need for seclusion, and marked improvement in the behaviour of the patients on all wards—especially the continued treatment wards. Credit for improved results in treatment is also given such therapies as group, occupational and recreational.

The overall populations of the active treatment mental hospitals have not increased but accommodation has been improved, which is considered a factor also in the success of the treatment program, and the improved behaviour patterns of the patients.

The Medical Superintendents report that it is not apparent in the admission rates of the Provincial Mental Hospital or the Provincial Mental Institute, that these have been affected by the functioning of the Psychiatric Wards in the University of Alberta Hospital, or the Calgary General Hospital.

In both active treatment hospitals the "open-door" policy has been pursued and several open wards have been added to those already in existence.

The Nursing Staff Training Programs have continued. Both active treatment hospitals are instructing affiliate students from the General Hospitals throughout the Province.

Separate reports of the Active Treatment Hospitals follow:

288 | 8 | 5 | 8 |

TABULATED SUMMARY—INSTITUTIONS—MOVEMENT OF POPULATION

Institutions	Patien	Patients in Hospital December 31st, 1956	spital 1956	P. G. B.	Admissions (Excluding Transfers)	20 ha	Dis	Discharges			Deaths		Patien Decem	Patients in Hospital December 31st, 1957	spital 1957
	M	দ্র	Т	M	Ľ,	H	M	Į.	H	¥	CE4	H	M	[z4	T
ACUTE MENTAL HOSPITALS P.M.H., Ponoka P.M.I., Edmonton	923	598	1521	354	338	830	287	283	570	98	19	822	921	507	1523
†Total	1945	1088	3033	851	129	1522	691	267	1258	102	51	153	1957	1109	3066
CHRONIC MENTAL HOSPITALS Roselayen, Campose P.A.M.H., Claresholm P.A.M.H., Raymond	285	220 96 134	505 96 134	09*	35	952	800	100	400	26	32	91	2884	217 96 133	501 96 133
Total	285	450	735	09	40	100	- m		9	56	40	96	284	446	730
MENTAL DEFECTIVE SCHOOL P.T.S., Red Deer	392	306	869	39	31	-02	34	19	23	Ħ	20	9	395	312	707
Overall Total	2622	1844	4466	950	742	1692	728	289	1317	159	96	255	2636	1867	4503

PLEASE NOTE—"These totals include some 500 mental defectives, seniles and non-psychotics who do not require active treatment." All admissions by transfer from other Alberta Mental Hospitals.

DEPARTMENT OF PUBLIC HEALTH

TABLE 2. FIRST ADMISSIONS

DIAGNOSTIC CLASSIFICATION:	Male	Female	Total
Syphilis with Psychosis	3	1	4
Schizophrenia	116	97	213
Manic Depressive	25	25	50
Involutional Psychoses	15	19	34
Paranoid Conditions	17	14	31
Senium	52	44	96
Pre-Senile	3	2	5
Psychosis with Cerebral Arteriosclerosis	54	30	84
Alcoholic Psychosis	23	6	29
Psychoses with Other Demonstrable Etiology	23	12	35
Other and Unspecified Psychoses	11	5	16
	9	17	26
Anxiety Reaction	5	8	13
Obsessive Compulsive	3	ő	3
	19	30	49
Neurotic Depressive	8	8	16
Other Psychoneurotic Conditions	68	21	89
Pathological Personality	4	7	11
Immature Personality	61	7	68
Alcoholism	01	4	2
Drug Addiction	1 4	22	36
Mental Deficiency	14		11
Epilepsy	6	5	
Primary Behaviour Disorders	8	Э	13
Other and Unspecified Disorders of Character,		_	
Behaviour and Intelligence	0	1	1
Mental Observation Without Need for Psychiatric Care	18	7	25
Other Non-Psychiatric Conditions	2	0	2
TOTALS	568	394	962

TABLE 3 — TABULATED SUMMARY OF DEATHS IN INSTITUTIONS DURING 1957

LS Its	H	11 11 11 11 11 11 11 11 11 11 11 11 11	3 255
TOTALS	[II	N W	96
•	M	2000001 44 400001	159
		о ооооно оноонооо	3
Raymond	Ē	С 0000но оноонооо	- m
Ra	M	0 00000 00000000	0
	H	0 000000 00000000	77
Claresholm	[II	0 00000 00000000	2
Clan	M	0 00000 00000000	0
u.	F	0 040000 400000000000000000000000000000	91
Rosehaven	[Ti	0 000040 0400 NO000	35
Ro	M	0 0000 0000000000000000000000000000000	56
er.	T	0 00000 000040000	9
P.T.S., Red Deer	Et.		23
H	Z	0 000000 000000000	H
r.	F	N@0000 38 1220010	85
P.M.I., Edmonton	FI	HAOHOOOOOHOOHO	19
E	¥	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	99
	T	0 100000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	89
P.M.H., Ponoka	F	0 100000 041400000	32
	×	0 240040 F400K0wwo	98
DISEA BOOK		Tuberculosis of Respiratory System All Other Diseases Classified as Infective and Perassite Reoplasms Maillenant Benigra and Unspecified Neoplasms Diabetes Meilitus Chronic Rheumatic Heart Disease Chronic Rheumatic Heart Disease Arteriosclerotic and Degenerative Heart Diseases of the Heart Hypertension with Heart Disease Other Diseases of the Phart Myeptrension with Heart Disease And Phentonia Rephritis and Hephrosis Sentify All Other Diseases Suidides and Self-Inflicted Injury	TOTALS

PROVINCIAL MENTAL HOSPITAL, PONOKA

T. C. MICHIE, M.D., Medical Superintendent

Patient Population Changes

The resident population on January 1st, 1957 was 1,521 of whom 923 were male, and 598 female. The number in residence on December 31st, 1957 was 1,523, of whom 921 were male, and 602 female. This was an overall increase of two. The details are set out in Table I.

Admission of Patients

Exclusive of transfers from other Provincial Mental Institutions, 692 patients were admitted. This was an increase of 41 over the number admitted in the previous year. 354 of those admitted were male, and 338 female.

Admissions by Voluntary Application numbered 210, by Medical Certificates 161, by Warrant 318, and 3 were admitted under "The Mental Defectives Act."

Forty patients were admitted as transfers from other Provincial Mental Institutions. The only significant change in the mode of admissions was a slight decrease in certified cases, and an increase in voluntary admissions, this having risen to thirty per cent. There was essentially no difference in the proportions of the various diagnostic categories. Syphilis has almost vanished as a causative factor in mental illness. Among first admissions, there was only one case of psychosis with syphilis.

Separation of Patients

570 patients were discharged, of whom 287 were men and 283 women. This was an increase of 52, as compared with 1956. The percentage discharged during the year, as compared with admissions, was also higher than in 1956, the actual figure being slightly in excess of eighty-two per cent. Ninety-one patients were transferred to other Mental Institutions, and 68 patients died, this being a decrease of four, as compared with the previous year. These were almost all in the aged group. 388 patients were given leave to be away from the Hospital, under the care of relatives, for periods of more than twenty-four hours.

Accidents and Elopements

Twenty-three patients suffered from fractures, six being men, and seventeen women. Most of these were among the aged.

There were no suicidal deaths.

A comparativly small number of patients left the Hospital without permission. In nearly all instances, they were returned by relatives or the police.

General Health of Patients

There were no epidemics. The general health of patients was maintained at a good standard.

Three patients, one man, and two women, were transferred to the Tuberculosis Unit at the Provincial Mental Institute, Edmonton, during the year.

Clinical Work

During the past year, there was a marked increase in the use of the new tranquilizing drugs, with beneficial results. There was a decreased need for seclusion, and a marked improvement in the behaviour of patients on the continued treatment wards. Many more patients became accessible to group therapy, either recreational, or in a form specifically directed toward rehabilitation. Patients previously confined to wards, had access to Hospital therapeutic facilities, and in some instances, it was possible to discharge long-term patients. There was a further decrease in the use of electroshock therapy. Insulin-shock therapy continued to be favoured for certain patients. The aim throughout the year was to extend, as far as possible, the "Open-Door" policy, always keeping in mind the safety of patients and the responsibility of the Hospital to the public.

Occupational Therapy

There was continued emphasis on this form of treatment. During the year, approximately 450 patients attended classes in the main studios. Classes were also conducted at various other points in the Hospital, the general over-all direction coming from the Occupational Therapy Staff.

The Library continued to give good service to the patients.

The Canteen was operated successfully with patient help, the proceeds being mostly used to purchase articles and equipment for the benefit of patients. On occasions, money was expended for individual patients, considered to be in need.

Recreational Therapy

The facilities of this department were taxed to the limit, because of the increasing number of patients who became accessible, in a greater degree, to this form of treatment. To meet the patients' needs, it was considered desirable to construct an extension to the main recreation hall. This was not completed at the end of the year. It was found the patients tended to spontaneously develop from within their own numbers, organized recreational activities. During the year, the majority of patients had access to television programs. It was felt this was beneficial, and greatly appreciated by the patients.

Religious Services

There was no change in the religious services from the previous years. The Visiting Clergy showed a great interest in the welfare of the patients. Many patients were privileged to attend religious services in the Town of Ponoka.

Social Services—Social Worker

During 1957, the position of Social Worker was held by a male Psychiatric Nurse, with a special aptitude for this work. While at the Hospital, he assisted with group therapy, and concerned himself with problems of individual patients referred to him. During the year, he travelled over 10,000 miles, and made in excess of 300 calls. For the most part, these were related to after-care, but on a good many occasions, he interviewed prospective patients and their relatives. Whenever possible, the relatives of patients visiting the Hospital were interviewed by the Worker.

Social Services—Psychologist

The Psychologist resigned in September, 1957, to continue her education at the University of Alberta. She gave very good service to the Hospital. Her duties consisted of carrying out required psychometric examinations, and administering projective tests, when indicated. She also assisted with group therapy.

There was no applicant for the position for the remainder of the year. However, some of the psychological examinations were done by a Physician, who had previous training in this field.

Dental Services

This department continued to provide efficient service to the patients. The Dentist also supplied services for the patients in the Provincial Auxiliary Hospitals at Claresholm and Raymond.

X-Ray Services

This department operated with efficiency under the direction of a Nurse-Technician, although with some difficulty, because of the volume of work. In all, over 4,000 examinations were made. All chest plates were referred to the Medical Staff of the Baker Memorial Sanatorium, Calgary, for interpretation. On occasions, plates were sent to Specialists in Calgary or Edmonton; otherwise the X-rays were read by the Medical Staff of this Hospital.

Laboratory Services

In general, the Laboratory provided adequate facilities for diagnostic work. On occasions, blood and spinal fluid specimens, as well as all tissues from the operating room, were referred to the Provincial Laboratory, Edmonton. On a very few occasions, specimens were sent to the Bio-Chemistry Department of the University of Alberta.

School of Nursing

The Teaching program was essentially unchanged, although methods were modified or amplified in keeping with current Teaching trends. The Instructor for Affiliates resigned on July 13th, 1957, and was replaced temporarily by a Nurse, without formal training in Teaching, but with a special aptitude in this field. On August 28th, 1957, a male Clinical Instructor was appointed, and assigned to duties on the male wards. He received his basic training in General and Psychiatric Nursing in Holland, and subsequently completed the Course in Supervision and Psychiatric Nursing at the University of Toronto. His services did much to improve the nursing level on the male wards. An Instructor who had been on leave of absence attending McGill University returned to the Staff on October 12th, 1957, and assumed the position of Clinical Instructor of Women's Wards. There were four Instructors in the School of Nursing during most of the year, three of whom held special qualifications.

Twenty-one students received instruction in the four-year course in General and Psychiatric Nursing. Ten received Certificates on completion of this course in June.

Twenty-two men received instruction in the three-year course in Psychiatric Nursing. Eight men received Diplomas in June.

One hundred and twenty-five affiliating Student Nurses from: The Archer Memorial Hospital, LAMONT; CALGARY General Hospital; Holy Cross Hospital, CALGARY; MEDICINE HAT General Hospital; LETHBRIDGE Municipal Hospital; St. Joseph's General Hospital, VEGREVILLE; and St. Michael's Hospital, LETHBRIDGE, received eight weeks' instruction in Psychiatric Nursing at this Hospital during the year. In addition, five Graduate Nurses were in attendance for eight weeks for deferred affiliation in Psychiatric Nursing.

Nineteen Graduate Nurses completed the Course in Psychiatric Nursing and received Diplomas.

Eleven Public Health Student Nurses from the University of Alberta were in attendance at this Hospital for field work, for a period of two weeks.

The Certified Nursing Aides who joined the Staff were given a short course in Psychiatric Nursing. This was repeated as frequently as necessary.

Ward Aides appointed to the Staff likewise were given short Orientation Courses by the School of Nursing.

Visitors

There has been a steady increase in the number of visits made by relatives to patients. As in previous years, every encouragement was given for such visits. Visiting was permitted morning and afternoon seven days a week.

The Hospital was inspected on a number of occasions during the year by the Hon. Dr. W. W. Cross, Minister of Health, and also by Dr. A. Somerville, Deputy Minister of Health. It was with regret the Hospital Staff received the news of Dr. Cross' resignation as Minister of Health, during the year, this being the termination of a long period of active association of the Minister with this Hospital. His successor, Dr. J. Donovan Ross visited the Hospital several times after assuming his new duties, and made an extensive survey of the Hospital facilities.

Dr. Randall R. MacLean, Director of The Division of Mental Health, frequently inspected the Hospital during the year.

The Visiting Board made its annual survey of the Hospital, as in previous years, with particular reference to the needs of patients.

In June, the Hospital was visited by Dr. Barnett, Professor of Administrative Medicine of Columbia University, New York. Dr. Barnett's immediate interest was in relation to the program of study in Administrative Medicine at Columbia University, undertaken by the Assistant Medical Superintendent.

Various organizations in the community took an active interest in the patients' welfare, made visits to the Hospital, assisted in recreational activities and in other efforts to promote the welfare of patients.

The Eugenics Board

Five meetings were held at this Hospital by The Eugenics Board during the year. Twenty-three male and thirty-five female patients, making a total of fifty-eight, were presented to the Board. Forty-nine male and twenty-nine female patients, or a total of seventy-eight were sexually sterilized during the year, at this Hospital.

Surgical Services

Surgical services were rendered by the two regularly appointed Consultants from Calgary and Edmonton. There were occasions when Surgeons from the Town of Ponoka, or Specialists in the various fields, from Calgary, Edmonton and Red Deer were called.

$Housekeeping\ Department$

There was no change in the program. Efforts were continued to improve the appearance of the wards, and to promote the comfort and privacy of patients.

${\it Maintenance\ Department}$

Buildings were, in general, kept in good repair. The roofs of three buildings were replaced. The tile floor was replaced in one of the male dining rooms. During the year, an extensive program of re-painting the exterior of buildings was commenced. The work on one male building, and one female building was completed.

Fire Protection

There was no change in the policy of fire protection. During the year, the new fire alarm system went into operation, and functioned satisfactorily. The fire engine was replaced by a new, triple combination pumper, which is considered to be a highly efficient, fire fighting machine. The Fire Brigade was fully manned, and there was a continuing program of instruction for the fire fighters.

On January 31st, 1957, one of the poultry buildings caught fire, and was partially destroyed. The main section was saved.

New Buildings and Equipment

The machinery was installed in the new cannery, and it gave good service during the canning season.

The incinerator was completed late in the year, and seemed to function efficiently.

The re-wiring project of the Hospital was completed. All electrical current at the Hospital is now alternating in type.

A cement sidewalk was laid from the main buildings to the Occupational Therapy Building, and also an approach sidewalk to the male admitting unit.

The construction was commenced, but not completed of an addition to the main recreation hall, and a new residence for Medical Staff.

Business Office

This department functioned with efficiency during the year. The Business Manager supervised the operation of the Farm, and the various Ancillary services of the Hospital.

Provincial Mental Hospital Farm

In general, there was a good production of vegetables and grain. There was an adequate supply of pork and poultry products for the needs of the Hospital, but the milk supply continued to be insufficient.

Ancillary Services

In general, the Hospital departments, including the Laundry, Linen Room, Print Shop, Sewing Room, Shoe Shop and Tailor Shop provided satisfactory services.

The Department of Public Works

This Department, under the direction of the Chief Engineer, functioned with efficiency. There was at all times, an adequate supply of heat, light and water.

Conclusion

During the past year, the policies of administration were not changed. This, however, was the first year the newer tranquilizing drugs were used extensively. Throughout much of the year, approximately thirty per cent of the patient population received these drugs. In combination with other forms of therapy, the results were in general highly beneficial. The need for electroshock therapy was decreased, but that for occupational and recreational and other forms of group therapy increased. It was possible to accord a much greater degree of freedom to patients, and in general, there was a very decided improvement in the social atmosphere of wards. There seems little doubt that these drugs have given new hope in the treatment of mental illness, in many of its forms.

1957 was the first full year in which this Hospital served only the southern half of the province. The admission rate, however showed some indication of increasing. This might be interpreted as indicating an increase in the incidence of mental disorder. A more realistic interpretation could be this trend is due to an increasing population of the province, and greater utilization of Mental Hospital services by those needing help. It can be said with some degree of satisfaction, that 1957 was a year in which progress was made in the treatment and care of patients, and in which hope ran high for the future.

Deep appreciation is expressed to the senior officers of The Department of Public Health for the sympathetic understanding, the encouragement and helpful advice given to the Staff of the Hospital in its efforts to assist those entrusted to its care.

TABLE 1
PROVINCIAL MENTAL HOSPITAL—PONOKA, ALBERTA
MOVEMENT OF THE PATIENT POPULATION DURING THE YEAR 195

							M	F	T
In residence as of December 3 On Leave or otherwise absent							923 17	598 34	152 5
On the books as of December	31st, 19	56					940	632	157
ADMISSIONS:									
First Admissions:	M	F	T	M	F	Т			
Voluntary	47	62	109						
Medical Certificate	45	60	105						
Warrant	143	69	212						
M.D. Act	1	1	2						
1200				236	192	428			
RE-ADMISSIONS:				200	152	420			
Voluntary	40	61	101						
Medical Certificate	13	43	56						***
Warrant	65	41	106				******		
M.D. Act	00	1	1						
				118	146	264			
Transfers in				26	14	40	5		
		*****					380	352	73
							1320	984	230
SEPARATIONS:									
Discharges:									
As recovered	91	95	186						
As improved	110	137	247						***
As unchanged	24	7	31						
As not psychotic	62	44	106				******		
				287	283	570			
Deaths				36	32	68		******	
Fransfers out				58	33	91			
						- 51	381	348	72
								040	. 14
On books as of December 31st	1957						939	636	157
On Leave or otherwise absent In residence as of December 3							18	34	10

N.B. "First Admissions" in this table refer to First Admissions to this hospital, subsequent tables refer to First admissions to any hospital in Canada.

TABLE 2

PROVINCIAL MENTAL HOSPITAL-PONOKA, ALBERTA

RESIDENT PATIENT POPULATION BY PSYCHOSES—December 31st, 1957

	Male	Female	Total
Syphilis with Psychosis	51	9	60
Schizophrenia	475	307	782
Manic Depressive Psychoses	42	62	104
Involutional Psychoses	4	18	22
Paranoid Conditions	66	43	109
Senium	13	17	30
Pre-senile Psychoses	3	5	8
Psychosis with Cerebral Arteriosclerosis	17	23	40
Alcoholic Psychoses	19	7	26
Psychoses with other demonstrable etiology	44	22	66
	71	40	111
Other and Unspecified Psychoses	1	40	717
Hysterical Reaction	1	7	4
Obsessive Compulsive Reaction		Ť	Ţ
Neurotic Depressive	2	5	7
Other Psychoneurotic Conditions	1	3	4
Pathological Personality	11		11
Alcoholism	11	1	12
Mental Deficiency	83	36	119
Epilepsy	2	2	4
For mental observation without need for Psychiatric care	2		2
Other non-psychiatric conditions	3		3
TOTALS	921	602	1523

TABLE 3
PROVINCIAL MENTAL HOSPITAL—PONOKA, ALBERTA
FIRST ADMISSIONS DURING 1957 BY PSYCHOSES

CLASSIFICATION:	Male	Female	Total
Syphilis with Psychosis	1		1
Schizophrenia	46	30	76
Manic Depressive	15	15	30
Involutional Psychoses	6	5	11
Paranoid Conditions	11	10	21
Senium	25	24	49
Pre-senile	1		1
Psychosis with Cerebral Arteriosclerosis	17	17	34
Alcoholic Psychosis	14	5	19
Psychoses with other demonstrable etiology	7	7	14
Other, and Unspecified Psychoses	8	3	11
Anxiety reaction		10	14
Hysterical reaction	4 3	3	6
Obsessive Compulsive	3		3
Neurotic Depressive	6	18	24
Other Psychoneurotic Conditions		3	3
Pathological Reaction	7	4	11
Alcoholism	27	2	29
Mental Deficiency	4	15	19
Epilepsy	2	4	6
Primary Behavior disorders	2	2	4
Other and Unspecified disorders of character,			
behavior and intelligence		1	1
Mental observation without need for Psychiatric care	8	2	10
Other non-Psychiatric conditions	2		2
TOTALS	219	180	399

TABLE 4
PROVINCIAL MENTAL HOSPITAL—PONOKA, ALBERTA
PROVINCIAL OF FIRST ADMISSIONS DURING 1957

RACIAL ORIGIN OF FIRST	ADMISSIONS	DURING 1	957
	Male	Female	Total
Origin		2	2
Austrian	 A	~	4
Chinese	1	Δ	5
Czech and Slovak	4	3	7
Danish	6	5	11
Dutch		53	109
English	56	90	103
Finnish	2		13
French	8	5	36
German	20	16	
Hungarian	5	2	7
Ttolion	2	1	3
Native Indian or "Breed"	1	4	5
Trish	26	19	45
Japanese		2	3
Jewish	****	2 3 5 3	3
Norwegian		5	15
Polish		3	6
Russian		4	12
Scottish		20	51
Swedish		7	14
Swiss	~		2
Ukrainian	4	8	12
Welsh		3	6
		1	3
Yugoslavian	_	_	
Not known		4	11
Canadian born	÷	4	6
American born		2	6
All others	-4		- 0
	010	180	399
TOTALS	219	100	099

TABLE 5 PROVINCIAL MENTAL HOSPITAL—PONOKA, ALBERTA AGE OF FIRST ADMISSIONS DURING 1957

Age	Male	Female	Total
Under 15 years	1	5	6
	14	18	32
15 to 19 years			
20 to 24 years	18	14	32
25 to 29 years	31	8	39
30 to 34 years	18	19	37
35 to 39 years	19	14	33
40 to 44 years		13	29
45 to 49 years		17	38
		14	27
50 to 54 years			
55 to 59 years	11	6	17
60 to 64 years	8	9	17
65 to 69 years	9	11	20
70 to 79 years	26	20	46
	14	12	26
80 and over	14	12	20
TOTALS	219	180	399

TABLE 6 PROVINCIAL MENTAL HOSPITAL—PONOKA, ALBERTA DISCHARGES BY PSYCHOSIS AND CONDITION ON DISCHARGE

	Recov	pered	Impr	havo		n-	Not	Psv.		Total	g
CLASSIFICATION	M	म	M	F	ena:	nged F	M	म म	M	F	т
Syphilis with Psychosis	IAT	F	1	E	TAT	E	TAT		7	2	[^] 1
Schizophrenia	37	34	55	61	14				106	95	201
Manic Depressive	22	28	13	11		1			35	40	75
Involutional	5	9	3	8				****	8	17	25
Paranoid Conditions	1		11	14	5				17	14	31
Senium			1	3	1	2			2	5	7
With Cerebral Arteriosclerosis	1	1	2	2				****	3	3	6
Alcoholic Psychosis	17	3	2	1					19	4	23
Of other demonstrable etiology	2	5	7	****	1	1			10	6	16
Other and unspecified Psychoses	2 1	2	2	.2	2				6	4	10
Anxiety reaction		2	4	13	****	1			5	16	21
Hysterical reaction		2	3	3	****	****	****	****	3	5	8
Obsessive Compulsive			2	1	1			****	3	1	4
Neurotic Depressive		7	4	13	****	1	****		7	21	28
Other Psychoneurotic reactions		2	****	5	****	Т				8	8
Pathological reactions		****	****	****	****		11	8	11	8	19 33
Alcoholism				****			30		30	20	23
Mental Deficiency		*	****	****		****	3	20	3	3	23
Epilepsy			****	****	****		3	3	3	3	4
Primary Behaviour disorders		****		****			3	1	3	1	**
Other and Unspecified disorders of character, behaviour and											
							2	3	2	3	5
intelligence	****	****	****	****	****	••••	4	3	4	3	J
for Psychiatric care							6	3	6	3	9
Other non-psychiatric conditions			****	****	****	****	6	3	6	3	9
Outer non-payematric conditions											
TOTALS	91	95	110	137	24	7	62	44	287	283	570

TABLE 7 PROVINCIAL MENTAL HOSPITAL—PONOKA, ALBERTA DISCHARGES BY PSYCHOSIS AND DURATION OF RESIDENCE

CLASSIFICATION		ler 3 nths F		ler 6 nths F	Une 1 ye M		Ov 1 y M		M	Total F	s T
Syphilis with Psychosis Schizophrenia Manic Depressive Involutional Paranoid Conditions Senium With Cerebral Arteriosclerosis Alcoholic Psychosis Of other demonstrable etilology Other and Unspecified Psychoses All Psychoneurotic reactions Pathological reactions Alcoholism Mental Deficiency Epilepsy Primary behaviour disorders Other and Unspecified disorders	41 26 6 5 1 3 16 3 4 17 7 25	37 28 11 5 5 1 4 6 1 40 6 3 18 1	26 7 2 6 1 2 2 1 3 2 2 	28 6 5 5 1 2 5 2 1 2	23 1 1 4 3 1	12 5 1 1 6 	1 16 1 5 1 1 2 1 	18 1 1 3	1 106 35 8 17 2 3 19 10 6 18 11 30 3	95 40 17 14 5 3 4 4 51 8 3 20 3	201 75 25 31 7 6 23 16 10 69 19 33 23 4 4
of character, behaviour and intelligence	2	1		2	****		****	****	2	3	5
for psychiatric care	6 6	2 2		1					6 6	3	9
TOTALS	171	171	54	62	34	26	28	24	287	283	570

TABLE 8 PROVINCIAL MENTAL HOSPITAL—PONOKA, ALBERTA CAUSES OF DEATH DURING 1957 ABRIDGED INTERNATIONAL CLASSIFICATION

CLASSIFICATION	Male	Female	Totals
17. Other Infective and Parasitic diseases		1 2	1 6
22. Vascular Lesions affecting C.N.S.		2	6
26. Arteriosclerotic and degenerative Heart Disease	. 7	6	13
27. Other diseases of the Heart		4	8
28. Hypertension with Heart Disease		1	1
30. Influenza		4	4
31. Pneumonia	. 12	9	21
45. Senility, etc., and ill-defined causes	. 3	3	6
46. All other diseases		****	2
TOTALS	. 36	32	68

TABLE 9 DEATHS BY PSYCHOSES

Psychosis due to Syphilis	2	4	2 8
Manic Depressive	2	3	5
Involutional	****	1	1
Paranoid Conditions	3	2	5
Senium	6	10	16
Psychosis with Cerebral Arteriosclerosis	11	7	18
Psychosis of other demonstrable etiology	4	3	7
Other and unspecified Psychoses	2	1	3
Mental Deficiency	1	****	1
Epilepsy		1	1
Other non-Psychiatric conditions	1		1
Outer non-rajemente continuona	-		
TOTAT C	26	20	68
101ALS	50	02	INO

PROVINCIAL MENTAL INSTITUTE, EDMONTON

A. D. MACPHERSON, M.D., Medical Superintendent

On December 31, 1957, there were in residence 1,036 male patients and 507 female patients. On leave or otherwise absent were 63 male patients and 40 female patients. The total patient population at the end of the year was 1,099 males and 547 female patients. This is a total of 1,646 patients, an increase of 5 over the previous year.

6 patients were transferred here from other mental hospitals. During the year there were 836 admissions. This is an increase of 42 over the previous year.

There were 688 discharges in 1957, a decrease of 42 over last year. 51 patients were transferred to other mental hospitals and there were 85 deaths (autopsied). Most of these deaths were in the senile group.

General Health

This has been good during the year. There were no serious epidemics. T.A.B. immunization was carried out on all new admissions and all new staff, and booster doses were given where required. Chest X-rays were done on all new admissions and new staff, and also a complete resurvey on all patients and staff.

Treatment of Patients

Electro Shock Therapy was given to 401 patients, and Insulin Shock Therapy to 126. Combined E.S.T. and I.S.T. was given in a few cases. Periodic supporting treatment (E.S.T.) was given in a considerable number of cases. Group Therapy was continued and found to be very helpful.

The use of Ataractic drugs was continued during the year. Largactil was found to be the most effective, Serpasil effective in certain cases but not generally effective. Equanil was found to be very effective in neurotic conditions. Trilafon was used during the last half of the year. The results were very good in a considerable number of cases, but the response was more variable than to Largactil. Some patients appeared to be disturbed by Trilafon and treatment had to be discontinued. The results in the case of chronically disturbed patients were very good. The response of new admissions was more variable. We have found that the use of these drugs has made the patients much more accessible and has improved the atmosphere of the wards remarkably. We feel that these preparations are of great value in making the patients more accessible.

Occupational Therapy

This department remains very active. Work is now done on most of the wards as well as in the main Occupational Therapy

Building. The average daily attendance is 250 patients. All patients on acute treatment attend as well as a large number of continued treatment patients. Many of the chronic patients attend the classes on the wards.

Social Service

This work is of great importance to us in the investigation of new patients, rehabilitation of discharged patients, group therapy and public relations. In addition the Social Worker carries out group therapy and supervises the Correspondence School work. This group was small this year, but all patients completed the work satisfactorily.

Recreational Program

The full-time program has continued. This takes in all wards and almost all forms of recreational activity. The D.V.A. has continued to assist us in providing stage shows, tickets to many activities in the city and dance orchestras. The Canadian Mental Health Association has continued to send groups to our patients' dances. Their interest has been increasing and the size of the groups has become much larger.

Library

This department has been very active during the year. New volumes were added.

Beauty Parlor

This department has remained very active. About 40 patients attend per day.

X-ray Department

This department continues to be very active. A total of 5,689 examinations was done. This is slightly less than during the previous year. In addition the department carried out B.C.G. work.

Electroence phalograph

This department remained very active. A total of 339 E.E.G.'s and 93 E.C.G.'s and 55 B.M.R.'s was done during the year. In addition the technician continued the E.E.G. work at Ponoka.

Laboratory

The work of this department was increased slightly over last year. A total of 13,592 procedures were carried out. This is a slight decrease of approximately 1,286 over the previous year.

Both the laboratory and X-ray departments assisted in the training given by the Department for technicians from the Department's School for Laboratory and Radiological Technicians.

Surgical Services

During the year 29 major operations and 47 minor operations were carried out, 13 casts applied.

Dental Department

A total of 5,179 treatments were carried out during the year. All types of dental work were done. All patients in the hospital were examined during the year and wherever required, treatment was done. In addition, the dentist also did work at Rosehaven, Camrose, and held clinics for dental students at the University of Alberta.

Training School

15 students graduated in Psychiatric Nursing in 1957, completing the three-year course. There were 69 students in the various years of the three-year course. Clinics and demonstrations were given to the students of the graduating classes from three of the city hospitals during the year. The Affiliation Training Program for final year students from the Royal Alexandra, Misericordia, and General Hospitals, Edmonton, and Holy Cross Hospital, Calgary, and B.Sc. classes, was continued. An average of 24 students are given a two-month course with lectures, clinics and ward experience.

Department of Building and Maintenance

The maintenance work was kept up very well throughout the year as usual. Extensive re-painting was done in addition to the other work.

Fire Protection

Fire practices were held at regular intervals. Inspections were carried out by the Fire Protection Branch. There were no fires.

Farm

Farm operations were very successful. The crop was excellent. The dairy herd did very well. Milk production was very high.

Garden

The garden crop was very good but some difficulty was experienced in harvesting, due to the excessive rain.

Laundry

No equipment was added during the year. This department does very good work.

Tailor Shop

This department was also very busy. A great amount of work was done during the year.

Shoe Shop

This department remains very busy and active.

Sewing Room

This department does very good work in repairing damaged and worn clothing.

Dietary Department

Continues to function very well. Nothing of note has occurred in this department.

Religious Services

The Lutheran minister has care of the work for the Lutheran Church. He holds services every Sunday and brings out choirs and other entertainment groups frequently. Roman Catholic services are held every Sunday. The Anglican and United Churches provide services on alternate Sundays. The Jewish, Lutheran and Ukrainian women's organizations visit patients frequently. The Chinese Benevolent Association also visits the hospital.

Police Court

This service continued to be very busy. A considerable number of remands were seen during the year, as well as people in the Police Court who were not remanded. There were a total of 266 remands during the year.

Business Office

This office continues to function in its usual efficient manner.

Medical Records Office

The work of this department is done very efficiently.

Staff

The staff situation, both male and female, has remained good. There has been little difficulty keeping the establishment filled.

Visitors

During the year the hospital was visited by the Hon. Dr. Cross, Hon. Dr. Ross, Hon. Mr. Taylor and Dr. MacLean, and the Visiting Board carried out its annual inspection in the fall. These visits were very much appreciated.

Public Relations

Members of the staff have continued to address public organizations whenever possible on the work of the hospital and the problems in the psychiatric field. These contacts were very useful and we would like to see them increased.

The final year students from the University of Alberta Medical School were given regular clinics during the year.

DEPARTMENT OF PUBLIC HEALTH

TABLE 1

MOVEMENT OF PATIENT POPULATION DURING 1957

In residence December 31, 1956	М	F	Т	M 1022 77 1099	F 490 45 535	T 1512 122 1634
(a) Voluntary (b) Medical Certificates (c) Warrant (d) Mental Defectives Act	72 110 163 4	51 108 50 5	123 218 213 9			
Total	349	214	563			
(a) Voluntary (b) Medical Certificates (c) Warrant (d) Mental Defectives Act	69 25 52 2	56 33 29 1	125 58 81 3			
Total	148	119	267			
TRANSFERS IN: TOTAL ADMISSIONS:	4 501	2 335	6 836			
SEPARATIONS: DISCHARGES: (a) Recovered	99	120	219			
(b) Improved (c) Unimproved (d) Unchanged	228 6 71	148 3 13	376 9 84			
Total TRANSFERS OUT: DEATHS: TOTAL SEPARATIONS:	404 31 66 501	284 20 19 323	688 51 85 824			
Total on books December 31, 1957				1099 63 1036	547 40 507	1646 103 1543

TABLE 2

PSYCHOSES OF THE PATIENT POPULATION DECEMBER 31, 1957

		Male	Female	Total
300	Schizophrenic Disorders	607	270	877
301	Manic Depressive Reaction	49	30	
302		-	15	72
303	Paranoia and Paranoid States	37		21
304	Senile Psychosis	91	14	51
305	Presentle Psychosis	25	25	50
306	Psychosis with Cerebral Arteriosclerosis	1	6	7
307			13	33
308	Psychosis of Other Demonstrable Etiology	8	2	10
309	Other and Unenceified Developing		10	44
310	Other and Unspecified Psychosis Anxiety Reaction without mention of	63	34	97
010	Sometic Cymenters of			
313	Somatic Symptoms	2	2	4
314			1	ı î
318	riculous-Depressive Reaction	5	6	11
210	1 Sycholieurotic Disorders, Other, Mixed		ŭ	11
320	and Unsuspected	2	2	4
321	Pathological Personality	13	6	19
322	inmature Personality	1	1	2
323		13	4	17
324	Other Drug Addiction	20	1	1
		4	3	1
325		168	84	050
326	Onspectifica Character, Bengviour and	100	04	252
000 4	III.elligence Disordere	1		
020.1		î	****	1
024		1	****	
025		29		1
026		3	6	35
083	Late Effects of Acute Infectious Encephalitis		1	4
353		4	2	6
688.1	Puerperal Psychosis	5	8	13
793.0	Observation without need of further Psychiatric Care	****	1	1
	rect of further Psychiatric Care	4		4
	Total	1000		
		1099	547	1646

TABLE 3
PSYCHOSIS BY FIRST ADMISSIONS—1957

		Male	Female	Total
300	Schizophrenic Disorders	70	67	137
301	Manic Depressive Reaction	10	10	20
302	Involutional Melancholia	9	14	23
303	Paranoia and Paranoid States	6	4	10
304	Senile Psychosis	27	20	47
305	Presenile Psychosis	2	2	4
306	Psychosis with Cerebral Arteriosclerosis	37	13	50
307	Alcoholic Psychosis	9	1	10
308	Psychosis of Other Demonstrable Etiology	16	5	21
309	Other and Unspecified Psychosis	3	2	5
310	Anxiety Reaction without Mention of Somatic Symptoms	5	7	12
311	Hysterical Reaction without Mention of	· ·		
02.2	Anxiety Reaction	2	5	7
314	Neurotic-Depressive Reaction	13	12	25
318	Psychoneurotic Disorders, Other, Mixed and			
	Unspecified Types	8	5	13
320	Pathological Personality	61	17	78
321	Immature Personality	4	7	11
322	Alcoholism	34	5	39
323	Other Drug Addiction	1	1	2
325	Mental Deficiency	10	7	17
324	Primary Childhood Behaviour Disorders	6	3	9
025	General Paralysis of Insane	2	· ·	ž
026	Other Syphilis of Central Nervous System		1	2
353	Epilepsy	4	1	5
793	Observation without Need for Further Medical Care	10	5	15
133	Observation without reed for Further Wedical Care	10	9	15
	Total	349	214	563

TABLE 4
NATIVITIES OF PATIENTS ADMITTED DURING 1957

THE THE SOL THE STATE OF THE ST	IIIID D	OILLING 1991	
Country	Male	Female	Total
Australia	0	1	1
Austria	4	5	9
Belgium	í		1
China	3		3
Canada	356	252	608
Czechoslovakia		2	2
Denmark	4	1	5
England	24	16	40
Estonia	1		1
Finland	1		
France	2	1	1 3
Germany	7	$\hat{7}$	14
Holland	$\dot{2}$	2	4
Hungary	7	3	10
Iceland	i		1
Ireland	6		6
Italy	2	****	2
Jamaica	₩	1	ĩ
Malta	1	_	Ť.
Norway	4	2	6
Poland	16	9	25
Rumania	10	$\overset{\circ}{2}$	2
Russia	7	2	9
Scotland	9	3	12
Sweden	3	2	5
Ukraine	11	9	20
U.S.A.	23	13	36
Wales	4	10	5
Yugoslavia	2	1	3
I ugosiavia			
Total	501	335	836

TABLE 5
AGES OF PATIENTS ADMITTED DURING 1957

Ages	А	First dmissi	on	Re	admiss	sion	Tı	ansfer	'S		Total	
8	M	F	T	M	F	Т	M	F	T	M	F	T
Under 15 years	6	2	8	1		1	1		1	8	2	10
15 to 19 years	19	14	33	9	4	13				28	18	46
20 to 24 years	27	29	56	9	13	22	1	****	1	37	42	79
25 to 29 years	42	27	69	15	8	23			,	57	35	92
30 to 34 years	42	23	65	21	15	36				63	38	101
35 to 39 years	39	19	58	19	22	41			****	58	41	99
40 to 44 years	34	17	51	15	21	36		2	2	49	40	89
45 to 49 years	22	17	39	15	14	29				37	31	68
50 to 54 years	19	15	34	22	8	30				41	23	64
55 to 59 years	11	6	17	7	3	10				18	9	27
60 to 64 years	16	9	25	7	4	11	1	****	1	24	13	37
65 to 69 years	12	8	20	3	2	5				15	10	25
70 and over	60	28	88	5	5	10	1		1	66	33	99
Total	349	214	563	148	119	267	4	2	6	501	335	836

DISCHARGES CLASSIFIED WITH REFERENCE TO PRINCIPAL PSYCHOSIS AND CONDITIONS FOR 1957 TABLE 6

PSY	PSYCHOSES	R	Recovered		T.	Improved		Unch	Unchanged or Unimproved	ıc		Total	
		M	ュ	T	M	[zi	H	×	Ţ.	H	M	Ĭ±i	Г
300	Schizophrenic Disorders	39	52	16	7.1	64	141	1	21	2	116	118	23
301	Manic Depressive Reaction	14	777	900	7	Н с	23 62	:	П	1	15	24	m c
305	Involutional Melancholia	XO.	14	77	1	NI	N	;	:	:	1Ö 1	QT	N i
303	Faranoia and Faranoid State	:	:	;	۰ م	o 0	or or	:	:		٥٦	က	Ħ,
200	Descentle Psychosis	:	:	:	11	7	0	:	:	:	1 "	4	
306	Psychosis with Graphs Arteriosolemsis	:	;		14	. 4	200	-	:	-	. TC	. 7	-
307	Alcoholic Psychosis	12	cr;	15	i ec	•	e ec	4		ł :	12.	1 00	ī
308	Psychosis of Other Demonstrable Etiology	4	4	00	20	7	2	4		4	13	9	13
309	Other and Unspecified Psychosis	:	:	:	က	D	00	:	!	:	က	വ	-
310	Anxiety Reaction	7	2	6	7	4	9	Н	:	1	JC.	11	ř
311	Hysterical Reaction	-1	ಣ	4	4	7	9		:	:	ro	Ŋ	Ä
313	Obsessive-Compulsive Reaction	:	:	:	-	;	,~ 1	:	:	1	_	:	, ,
314	Neurotic-Depressive Reaction	14	11	25	-	2	00	:	::	:	15	18	ಣ
3.18	Psychoneurotic Disorders	7	7	4	9	7	00	:	:	;	EEG	4	H
320	Pathological Personality	ş-4	:	,	36	18	54	43	7	45	80	20	50
321	Immature Personality	:	:		2	7	о	က	, - 1	4	rc.	80	H
322	Alcoholism	7	:	7	4	10	51	00		6	51	7	9
323	Other Drug Addiction	1	1	:		24	m		:	:		2	
324	Primary Childhood Behaviour	:	;	11	o 0	⊣,	10			01	10	CT :	
325	Mental Deficiency	:	1	-	י כי	4,	(9	13	۵,	ן:	N
970	Ourspecified, Character, etc.	:	:	:	⊣ (-1	N	:	:	:	⊣ (-	
020	General Paralysis of Insane	1	1	:	Nu	c	70	;	:	:	21	ic	
200	Discouration	1	:	-	ດເ	20	υ	: 0	; c	: 0	U ţ	ווכי	7
133	Observation	۲	:	1	4	0	0	10	8	TO	7	c	7
	Total	100	119	219	228	149	377	20	16	82	404	284	88

į	-	
ı	_	
ļ	E	
ľ	Y	
i	⋖	
Ļ	S	

DISCHARGES DURING 1957 SHOWING DURATION OF RESIDENCE IN HOSPITAL

	H	34	A B	N V	N	U	A	L	1 67	RJ ° º	El er	P(OF S	? ?	r,	127	9!	57	12	21	2	2	20 9	97	889	
COTAL	Σų	118 2																							284	
£.,	×	116																			۲				404	2
	H	13	П	i	į		Н	;	4° C	7	:	:	i	:	-	4	:	1	-	4	;	:	1	1	37	i
years	(See	3	7	:	:	:	1	ļ	r	4	;	:	:	:	:	:	:	;		C	:	:	;	:	10	2
~	M	œ	:	:	;	;	H	!	n) ,	7	1	:	;	:	F	4	:	:	-	101	;	:	:	:	17	
	T	9	į	:	;	:	:	:	į	4	;	:	:	;	:	1	:	:	:	က	1	:	:	:	10	2
Jnder	(F4	8	.!	:	:	:	:	:	:	:	:	i	:	:	i	i	:	:		-	1	1	:	:	100	0
P 67	×	4		;	:	;	:	į		7	:	:	:	:		:	1	;	1	2	1	:	:	:	1	•
	Η	19		Н	;	:	:	0		7	:	:	1	4 1	4	:	:	1	1	2	1	i	;	:	22	3
Under 18 mths	'n	9		Н	1	:	;		Н	7	:	1	; (N	į	:	:	:	:	-	1	i	;	:	120	2
18	Z	13	-	:	;	;	:	H	1	Т	į	:	: 0	N 1	4	i	:	:	:	Н	1	:	:	:	6	3
	H	26	4		~ 1	:	:	7	-11	Н	1	Т	;	;	Ţ	7	:	:	:	2	1	:	;	:	100	P
Under 2 mths	Ē	13	භ	_	-	:	:	Н	; 1	1	i	:	:	į	;	į	1	i	i	-	1	;	:	:	8	14
D 21	M	13	Н	1	:	;	:	Н	H	;	1	7	;	;	į	-	:	1	!	-	1	:	:	:	10	1
	H	37	00	ಣ	C)	:	-	20	2	н,	Н,	н.	H (?	. 0	0 -	H C	N	:	-	1	H	2	:	102	3
Under mths.	Ŀı	11	3	-1	Н		:	1	-1	н,	н,	~	i	2	Ť	7	:	:	;	-	1	:	-1	:	0.7	ą.
٦6	×	26	co	2	٦	:	-1	5	٦	:	:	;	H	;	1	٠,	40	7	1	:	: :	H	-	;	I C	20
	H	20	00	6	ಣ	4	CZ	, , ,	ಣ	- -1	က	:	;	00	t ب	~ r	٠,	Н	Ť	٠,	4		:	:	000	170
Under 6 mths.	[zi	42	9	7	2	-1	;	:	:	Н	8	:	1	ıc.	Η,	4 1	4	:	:	-	4			:	100	5)
D.	M	88	7	7	-	ಣ	7	;	ಣ		-		:	က	0	00	1	-	Ţ	4	:			:	l c	ŝ
	H	63	17	10	4	7	15	00	00	:	12	00	;	19	00 (90 c	070	3	200	20	00	ı , .	9	16	040	5/3
Under	Į.	33	6	9	H	-	4	H	ಣ	:	œ	4		6	ကျ	15	9 0	12	70	1 <	۳-		2	10	100	13(
D.F.	M	24	00	4	က	H	11	2	ıc	:	4	4	:	10	ro i	89	4.	48	- 10	0 <	r –	-	4	Ħ	1 8	230
SISOHOASa		Schizonbrenic Disorders	Manic-Depressive Reaction	Involutional Melancholia	Paranoia and Paranoid States	Sentle Psychosis	Psychosis with Cerebral Arteriosclerosis	Alcoholic Psychosis	Psychosis of Other Etiology	Other and Unspecified Etiology	Anxiety Reaction without Somatic Symptoms	Hysterical Reaction	Obsessive-Compulsive Reaction	Neurotic-Depressive Reaction	Psychoneurotic Disorders	Pathological Personality	Immature Personality	Alcoholism	Other Drug Addiction	Frimary Childhood Benaviour	Inspecified Character ato	Conoral Paralysis of Insane	Enilensy	Observation		Total

TABLE 8

DEATHS DURING 1957 BY ABRIDGED INTERNATIONAL STATISTICS CLASS

		Male	Female	Total
1 18	Tuberculosis of Respiratory System Malignant Neoplasms	1	 1	1
20	Diabetes Mellitus		2	2
22 25	Vascular Lesions Affecting Central Nervous System Chronic Rheumatic Heart Disease	10 1		1
26 31	Arteriosclerotic and Degenerative Heart Disease	29 16	10	39 16
38	Nephritis and Nephrosis	1	1	2
46 49	All Other Diseases	í	1	2
	Total	66	19	85

TABLE 9

DEATHS DURING 1957 BY PSYCHOSES

		Male	Female	Total
300	Schizophrenic Disorders	12	2	14
301	Manic Depressive Disorders	2	1	3
302	Involutional Melancholia	1	****	1
303	Paranoia and Paranoid States	2		2
304	Senile Psychosis	13	3	16
305	Presenile Psychosis	3		3
306	Psychosis with Cerebral Arteriosclerosis	19	7	26
307	Alcoholic Psychosis	1		.1
308	Psychosis of Other Demonstrable Etiology	7	3	10
314	Neurotic Depressive Disorders		1	1
322	Alcoholism	2	****	2
325	Mental Deficiency	3		3
353	Epilepsy	1	1	2
025	General Paralysis of Insane		1	1
	Total	66	19	85

TABLE 10

NUMBER OF OFFICERS AND EMPLOYEES ACCORDING TO CATEGORIES

	Male	Female	Total
Medical Superintendent	7		7
Assistant Medical Superintendent	1	****	1
Medical Officers	8	4	12
Interne	Ŭ	î	1
Dentist	1	_	7
Business Manager	1		1
Clerical and Stenographic Staff	7 .	12	19
Laboratory Technicians	6	3	3
V was Technicians		3	
X-ray Technicians	2		2
Occupational Therapists	1		1
Recreational Therapists	2		2
Psychologist	****	1	1
Electroencephalograph Technician	1		1
Nurses (General Graduates)		31	31
Nurses (Psychiatric Graduates)		47	135
Attendants and Ward Aides (non-student)	83	62	145
Attendants and Ward Aides (1st year)	10	17	27
Attendants and Ward Aides (2nd year)	10	1	11
Attendants and Ward Aides (3rd year)	8	6	14
Dietitians		2	2
Nurses' Home Staff		5	5
Kitchen Help	26	21	47
Cleaning Domestics	20	13	13
Laundry Help	4	14	18
Chauffeur	1	14	10
Garden and Farm Help	15	****	15
Engineers and Mechanical Help	23		23
Other Maintenance Help	26	****	
Housekeeper	26		26
Shoemaker		T	Ţ
MOCATION CO.	1	****	1
Total			
Total	320	241	561

CHRONIC HOSPITALS

Provincial Auxiliary Mental Hospital, CLARESHOLM

Provincial Auxiliary Mental Hospital, RAYMOND

Rosehaven, CAMROSE

The Claresholm Auxiliary Mental Hospital has a patient population of 100 women. There are 31 Mental Defectives in this population. The average age of the patients, excepting the Mental Defectives, is over 62.

The patient population is kept at 100, chiefly by transfers from the other Mental Hospitals in the Province. One Mental Defective was admitted directly from the community.

The new unit to house all the patients is nearing completion and should be ready for occupancy early in 1958.

The Raymond Auxiliary Mental Hospital has a patient population of 133 women. There are 47 Mental Defectives in this population. The average age of the patients, excepting the Mental Defectives, is over 65.

The patient population is kept at 133, chiefly by transfers from the other Mental Hospitals in the Province. Two patients were admitted directly from the community.

"Rosehaven", CAMROSE, has a patient population of 510 usually. There are approximately 290 men and 220 women. The average age of the patients is over 80.

The patient population is kept up at the limit by transfers from the other Mental Hospitals in the Province. No patients are admitted directly from the community.

There were 91 deaths (56 men and 35 women) during 1957. Deaths were due chiefly to degenerative diseases and pneumonia. Four patients were discharged during the year and 34 were granted leaves-of-absence of varying periods of time, some for several weeks' duration.

The general health of the patients is excellent considering their ages.

Separate reports on each institution follow.

PROVINCIAL AUXILIARY MENTAL HOSPITAL, CLARESHOLM

R. R. MACLEAN, M.D.

Movement of Patients—In residence in January, 1957 there were 96 patients and in residence December 31, 1957 there were 96 patients.

One patient was admitted under the Mental Defectives Act.

There were two patients transferred from the Provincial Mental Institute, Edmonton to this hospital.

One patient was transferred to the Provincial Mental Hospital, Ponoka for further psychiatric care.

There were two deaths during the year due to cardiac and degenerative conditions.

Accidents and Elopements—There were no elopements during the year and no accidents of a serious nature.

General Health—On the whole the general health of the patients was good. Many of the patients had 'flu in October but none was seriously ill. A local physician has made regular visits and has been most helpful at all times. The necessary X-Ray and laboratory tests were done at the Claresholm Municipal Hospital.

Occupational Department—The occupational department maintained its high standard of work. An annual sale was not held and the work was sold throughout the year.

The more deteriorated patients were kept occupied in the day room during the winter months. They do simple needlework, knitting, simple jig-saw puzzles, colouring and making scrap books. The patients are happier and less quarrelsome when there is staff available for this type of occupation.

Between twenty and twenty-five patients worked in the garden and grounds during the summer months under the supervision of a ward aide. Some of the patients do very little work but they enjoy getting outside and wandering about.

Recreational Activities—Bingo parties, the usual Christmas parties, and sports day were held. The occasional ball game and garden party were also enjoyed.

The United Church Choir, Salvation Army, and various choral groups brought their music to the hospital. These visits were much appreciated by the patients.

The Rebekah Lodge of Stavely and the F.W.U.A. of Pincher Creek sent gifts at Christmas. The group from Pincher Creek have sent clothing and items suitable for parties for small groups which have been much enjoyed.

Films were shown almost every week for the patients and most of the patients attend these shows.

Many of the patients enjoy television every day.

During the winter the patients went for daily walks when weather permitted. During the summer months all the patients went out on the lawns and around the grounds twice a day.

Beauty Parlour—The majority of the patients get their hair done and many were given permanents by the staff.

Religious Services—Local clergymen conducted services each Sunday afternoon. Roman Catholic services were conducted once a month.

Dentistry—The dentist from the Provincial Mental Hospital, Ponoka, visited the hospital in June and gave the necessary dental care. Emergency dental work was done by the local dentist who was most helpful.

Fire Protection—The buildings have been inspected by the fire inspector. Fire practices were held and equipment checked regularly.

Buildings—The necessary repairs to the buildings and equipment were carried out by the maintenance staff.

Gardens and Grounds—The vegetable crop was fairly good. There was some loss of vegetables due to the early snow in October.

Visitors—The Visiting Board visited the hospital in October.

Dr. R. R. MacLean, Director, Division of Mental Health, visited the hospital several times and his help and advice were greatly appreciated.

Relatives and friends visited the patients during the year.

TABLE 1
MOVEMENT OF PATIENT POPULATION DURING 1957

	M	F	T	M	F	T
In residence January 1, 1957					96	96
On leave or otherwise absent	****				30	
		****			Т	1
ADMISSIONS						
First Admissions:						
(a) Voluntary						****
(b) Certificate		****		****		
(c) Warrant						
(d) M. D. Act		1	1		1	1
Re-Admissions:		-	•		_	
(a) Voluntary						
			****	****		
	****		****	****		****
(c) Warrant			****			
(d) M. D. Act	****			****		****
Transfers	****	2	2		2	2
			_			
				n	100	100
Total Admissions		3	3	•		
Separations:	****	0	U		****	
Discharges:						
(a) As recovered	****	****			****	
(b) As Improved			'			
(c) As Unimproved			****			
Total Discharges				****		
Transfers		1	1		1	1
Deaths	****	2	$\tilde{2}$		2	2
	****				2	44
Total Separations					- 2	
Total Separations	****		****		3	3
					97	97
On leave or otherwise absent					1	1
					96	96

TABLE 2

ORIGINAL DIAGNOSIS ON ADMISSION TO MENTAL HOSPITAL

CL	ASSIFICATION	Male	Female	Total
03	PSYCHOSES WITH EPIDEMIC ENCEPHALITIS		2	2
08	PSYCHOSES WITH CEREBRAL ARTERIOSCLEROSIS		1	1
10	PSYCHOSES WITH CONVULSIVE DISORDERS		1	1
11	(a) PRE-SENILE PSYCHOSES		1	1
16	PSYCHONEUROSES		1	1
17	MANIC-DEPRESSIVE PSYCHOSES		1	1
18	DEMENTIA PRAECOX (Schizophrenia)		53	53
19	PARANOIA AND PARANOID CONDITIONS		6	6
21	PSYCHOSES with MENTAL DEFICIENCY		8	8
23	WITHOUT PSYCHOSES		23	23
	TOTAL		97	97

TABLE 3

CAUSE OF DEATH DURING 1957

ABRIDGED INTERNATIONAL CLASSIFICATION

CLASSIFICATION	Male	Female	Total
20 Diabetes Mellitus 31 Pneumonia		1	1
Totals			

TABLE 4

DEATHS BY ORIGINAL PSYCHOSIS

Mental Defective Dementia Praecox	 1	1 1
Totals	 	
Totals	 2	2

PROVINCIAL AUXILIARY MENTAL HOSPITAL, RAYMOND

R. R. MACLEAN, M.D.

Movement of Patients

On January 1, 1957 there were one hundred and thirty-four patients in residence. During the year there were two first-admissions, one transfer from the Mental Institute, Edmonton and two re-admissions. Separations were two discharges, one transfer to the Mental Institute, Edmonton and three deaths, leaving in residence on December 31, 1957, one hundred and thirty-three patients.

Accidents and Elopements

There were no elopements. One patient fell sustaining a Colles' fracture of the left Radius which was placed in a cast and healed uneventfully.

General Health

All patients were given a complete physical examination. Two patients received a course of Electroshock Therapy. One patient developed an active Tuberculosis and was transferred to the Provincial Mental Institute, Edmonton. Forty-two percent of patients contracted "Asian Flu" with Gastro-intestinal symptoms but none became seriously ill. The three deaths are detailed in Tables 3 and 4 of this report.

Occupational Therapy

Patients are occupied in the Laundry, Sewing Room, Kitchen, Nurses' Home and on the Wards. A few patients help to pick vegetables in the garden and one patient has the responsibility of gathering the eggs. There is a full-time attendance by other patients in the Occupational Parlor where all kinds of needlework, knitting, rag rug making, painting, etc. is done. Tea is served each afternoon. A radio provides entertainment.

Library

The patients' library is situated in the Occupational Parlor. One new book is added each month. Current magazines are available from subscriptions or donations from local friends.

Religious Services

Both Catholic and United Church services are held at the hospital once monthly. These clergymen also preside at patients' funerals when required to do so.

Recreation and Entertainment

Picture shows are shown on the ward once a week and are eagerly attended. We received a television set this summer and all enjoy it very much as it provides a variety of entertainment every evening. We have also received a substantial record library for the record player and this provides music for dances and Sunday afternoon concerts. Special holidays are celebrated with a dance or party. In the summer a sports day is held and occasionally picnic suppers are served on the lawns. There is a radio and piano on the ward and also in the Annex sitting room.

Staff Changes

One ward aide resigned to move from the district. This vacancy was filled satisfactorily.

Visitors

Periodic visits of inspection were made by Department of Public Health, Public Works, Fire Department and Fire Inspector, Electrical and Boiler Inspector. The Provincial Visiting Board made its annual visit.

Gardens and Grounds

The lawns and flower beds improve each year and fresh cut flowers are now kept on the wards all summer. The trees and hedges are trimmed neatly giving a smart appearance. Fresh vegetables are brought in daily all summer from the garden. The yield of winter vegetables was very good and is keeping well in the root cellars.

Conclusion

The hospital capacity was maintained throughout the year. Natural gas for heating was installed in the boilers and is very satisfactory. The sewing room was moved to new, larger quarters and is much appreciated by the seamstress and helpers. The Asian Flu epidemic caused no serious shortage of staff at any one time although most contracted it eventually.

T.	A	D	т	Tr'	-1

MOVEMENT OF PATIENT POP	ULATI	ON DU	RING 1	957		
In Residence January 1, 1957					134	134
ADMISSIONS:	M	F	Total	M	F	Total
(a) Voluntary (M.D. Act)(b) Certificates						
(c) Warrant						
(d) Order		1	1		3	3
				0	137	137
RE-ADMISSION:						
(a) Voluntary		1	1			
(b) Certificates		1	1			
(c) Warrant	****	****				
(d) Order						0
(e) Transfers		****			2	2
					139	139
SEPARATIONS:						
(a) As recovered						
(b) As improved		1	1			
(c) As unimproved		1	1			
(d) Transferred to other hospitals		1	1			
(e) Eloped		•	****			
(f) Deported						
(g) As with Psychosis					6	6
(h) Deaths		3	3	****		
					133	133
In Residence December 31, 1957					133	133

TABLE 2
ORIGINAL DIAGNOSIS ON ADMISSION TO MENTAL HOSPITAL

		wate	remaie	10181
300	Schizophrenic Disorders		60	60
300.1	Manic-Depressive Reactions		6	6
303	Paranoia and Paranoid States		9	9
304	Senile Psychosis		ь	0
306	Psychosis with Cerebral Arteriosclerosis		1	1
308	Psychosis with other Demonstrable Etiology		4	4
309	Other and unspecified Psychosis		8	8
325	Mental Deficiency		38	38
025	General Paresis of Insane		1	1
0=0				-
			122	133

TABLE 3 CAUSES OF DEATH DURING 1957 ABRIDGED INTERNATIONAL CLASSIFICATION

CLAS	SIFICATION	Male	Female	Total
22	Vascular Diseases of Central Nervous System		1	1
27	Other Disease of Heart		1	1
31	Pneumonia		1	1
	Totals		3	3
	Totals	****	•	

		DEATHS	pv	TABLE 4	PSYCHOSIS			
325 Ment	al Deficiency					·	3	3

ROSEHAVEN, CAMROSE

R. R. MACLEAN, M.D.

Movement of Residents

On January 1, 1957, the resident population at Rosehaven numbered 505, of which 285 were men and 220 women. The total number in residence on December 31, 1957 was 501; 284 men, 217 women.

There were 126 residents admitted to Rosehaven during 1957. Of this number 59 were received from the Provincial Mental Hospital, Ponoka, 36 from the Provincial Mental Institute, Edmonton, one was re-admitted and 30 returned from leave of absence.

Separations from Rosehaven during 1957 numbered 130 during the year, 91 of these were attributable to death, four were discharged, one was transferred to the Provincial Mental Institute and 34 went on leave of absence.

Admissions throughout the year were in the form of transfers from other institutions in Alberta and filled beds made available by deaths or transfers. The average daily population was 502.7.

Deaths were due to degenerative causes.

Accidents and Elopements

During the year a number of residents received injuries either from accidental falls or as a result of interference from other residents. Some of these resulted in contusions or lacerations of a minor nature and required only first aid treatment. In other instances, more extensive treatment was necessary and involved hospitalization following fractures or suturing of lacerations. There were 24 fractures, eight lacerations requiring special care, 16 other injuries requiring X-ray investigations or bed care. A number of patients left the grounds without permission but only in four cases, police assistance was requested. All were returned without incident.

General Health

The general health of the residents was considered good in view of the age of these individuals. A progressive mental and physical decline in most cases, makes an increasing amount of nursing care necessary.

An average of 80 patients required infirmary care each month. During the year, 30 patients required care at St. Mary's Hospital for surgical, orthopedic or diagnostic attention. Outpatients' work done at St. Mary's for Rosehaven consisted of 82 blood counts, 15 urinalyses and 11 miscellaneous tests as well as 26 X-rays. All residents were X-rayed by the Mobile Chest Unit in May.

Medical care was supplied by the Smith Clinic, Camrose.

Dental examinations and necessary dental treatments were done twice a year by the dentist from the Provincial Mental Institute, Edmonton. Emergency work was done by a local dentist.

Occupational Therapy

Organized occupational therapy classes were commenced. Groups from each ward have attended in rotation, averaging 52 residents at classes twice a week. A successful bazaar was held in December and articles made by the residents sold readily. An average of 20 residents worked on institutional services—laundry, kitchen or garden. The average number employed on wards in light housekeeping duties was 85.

Religious Services

Weekly Protestant Church services were held at Rosehaven and were arranged by the local Ministerial Association. These were well attended with an average of 116 residents present. Roman Catholic services were held several times during the year.

Recreation

Walking parties and lawn groups were taken out each day, weather permitting. An average of 250 residents were out on days in the summer. 150 residents have been given special ground privileges and were out almost daily. A movie film was shown every other week with an average of 205 residents in attendance. Parties in the form of bingo, tea dances and cards were arranged each month for the residents. Cards and games have been supplied to the wards. Television and radio sets are available for the majority of residents. One local organization has sponsored car rides twice during the year for the residents and entertained at a Christmas concert. Ex-servicemen are visited regularly by members of the Ladies' Auxiliary to the Canadian Legion who arrange outings, as well as a Christmas party for them.

Buildings

Construction on a new carpenter shop was commenced in the fall.

The buildings have been well maintained and repairs done promptly.

Garden and Grounds

A new garden court was constructed and further landscaping of the grounds done.

Staff

The general health of the staff has been good. Vacancies on the staff establishment created by resignations have been readily filled. Chest X-rays were done on all staff by the Mobile Chest Unit. T.A.B. vaccine has been given and Asiatic flu vaccine given to most of the staff members.

Visitors

The Minister of Health visited during the year.

Regular visits were made to Rosehaven by the Director of Mental Health.

An annual visit was made by the Visiting Board.

TABLE 1

111000	-					
MOVEMENT OF POPULATI	ON D	JRING	1957			
	M	F	T	M	F	T
In residence December 31, 1956	••••	****		285	220	505
ADMISSIONS:	37	22	59			
From P.M.H., Ponoka	23	13	36			
From P.M.I. Edmonton Returned from L.O.A. Re-admitted	14	16	30			
100 00000000000000000000000000000000000	74	52	126	74	52	126
	1 12	02	120			
				359	272	631
SEPARATIONS: Formal Discharges Trans. to P.M.I. On L.O.A. Deaths	3 1 15 56 75	1 19 35 	4 1 34 91 130	75	55	130
Total in residence December 31, 1957				284	217	501

TABLE 2

ORIGINAL DIAGNOSIS	ON	ADMISSION	ТО	MENTAL	HOSPITAL
--------------------	----	-----------	----	--------	----------

		306
300	SCHIZOPHRENIC DISORDERS	16
301	MANIC DEPRESSIVE REACTION	
303	PARANOIA and PARANOID STATES	39
304	SENILE PSYCHOSES	172
306	PSYCHOSES with CEREBRAL ARTERIOSCLEROSIS	107
		10
308	PSYCHOSES of DEMONSTRABLE ETIOLOGY OTHER and UNSPECIFIED PSYCHOSES	11
309		1
PSY	CHONEUROTIC DISORDERS	1
320	PATHOLOGICAL PERSONALITY	÷
321	IMMATURE PERSONALITY	2
322	ALCOHOLISM (Exc. 307)	3
323	OTHER DRUG ADDICTION (Exc. 308.6)	1
325	MENTAL DEFICIENCY (Exc. 309.1)	7
024	TABES DORSALIS	1
024	GENERAL PARALYSIS OF INSANE	3
025		4
026.		17
930	NOT PSYCHOTIC	Τ.
		501

TABLE 3

CAUSES OF DEATH DURING 1957

ABRIDGED INTERNATIONAL CLASSIFICATION

18 22 26 27 31	Neoplasms, Malignant Vascular Disease of Central Nervous System Arteriosclerotic and Degenerative Heart Disease Other Diseases of Heart Pneumonia All other Diseases	Male 2 11 8 5 29	Female 2 4 6 1 22	Total 4 15 14 6 51
46	TOTALS	56	35	91

TABLE 4

CLASSIFICATION OF DEATHS ACCORDING TO ORIGINAL PSYCHIATRIC DIAGNOSIS, 1957

DISEASE	Male	Female	Total
SCHIZOPHRENIC DISORDERS:			
Hebenhrenic		1	1
Catatonic		1	1
Paranoid	5	1	6
MANIC DEPRESSIVE REACTION	2	1	3
PARANOID and PARANOID STATES	6	2	8
SENILE PSYCHOSIS	17	21	38
PSYCHOSIS WITH ARTERIOSCLEROSIS	15	6	21
MENTAL DEFICIENCY	1	1	2
NOT PSYCHOTIC	4		4
PSYCHOSIS WITH OTHER BRAIN DISEASE		1	1
UNDIAGNOSED	4		4
PSYCHOSIS WITH EPILEPSY	1		1
INVOLUTIONAL MELANCHOLIA	1	****	1
		_	_
TOTALS	56	35	91
			-

INSTITUTIONS FOR MENTAL DEFECTIVES

The Provincial Training School, RED DEER Deerhome, RED DEER

The Provincial Training School, RED DEER, has a patient population of 707 (395 males and 312 females). Of these, 442 are 15 years of age or over. The Training School operates at full patient capacity continuously, because of the waiting list from which beds are filled as they become vacant.

Emphasis is placed on training which may facilitate the discharge of the patients. Fifty-three were discharged during the year. This is a very large number for an institution of this nature. There were six deaths.

The staff training program is designed to train staff members in the nursing and general care and training of the mentally deficient children in the institution.

A new infirmary ward under construction will be ready for occupancy early in 1958. The new clinical building was completed during the current year.

The Deerhome Institution is nearing completion in part. The utilities building, kitchen and two wards will be ready for occupancy early in 1958.

In the first instance, the mentally deficient partients now residing in the mental hospitals of the province, and a number of adult defectives now in the Provincial Training School, will be transferred to DEERHOME. Such transfers will make beds available in the latter institutions for future admissions.

TABLE OF ADULT DEFECTIVES IN ALL INSTITUTIONS IN THE ALBERTA DIVISION OF MENTAL HEALTH—YEAR ENDING DECEMBER 31st, 1957

D11101011 01 11-11-11						
INSTITUTION	MENTAL DEFECTIVES					
	Male	Female	Total			
PROVINCIAL MENTAL HOSPITAL, PONOKA PROVINCIAL MENTAL INSTITUTE, EDMONTON	154 231	76 118	230 349			
PROVINCIAL AUXILIARY MENTAL HOSPITAL,	201	31	31			
CLARESHOLM		47	47			
TOTAL ADULT MENTAL DEFECTIVES IN MENTAL HOSPITALS	385	272	657			
PROVINCIAL TRAINING SCHOOL, RED DEER (over 15)	245	197	442			
GRAND TOTAL	630	469	1099			

From the above table it will be seen that there are 657 Adult Defectives in all the Mental Hospitals combined, and 442 (of the

age of 15 and over) in the Provincial Training School, RED DEER.

It will be apparent from the table that the eventual transfer of the Mental Defectives from the Mental Hospitals will result in many beds being made available for current admissions, and will relieve any overcrowding which might exist in any particular Mental Hospital. The ultimate transfer of the Adult Defectives from the Provincial Training School, RED DEER, likewise will make beds available there for new admissions, and a decrease in the average age of the population in that institution.

PROVINCIAL TRAINING SCHOOL, RED DEER

L. J. LEVANN, M.D., Medical Superintendent

In Residence, Admissions, Discharges, Deaths

There has been approximately a 2% increase of patient days during the year.

29 new admissions were taken into the School, of which 14 were males and 15 females. There were a total number of 41 re-admissions during the year, making the total number of admissions 70.

There were 53 discharges, 34 males and 19 females. One patient was transferred to the Provincial Mental Hospital and one patient was transferred to the Cerebral Palsy Clinic. There was a total of six deaths. Three of these deaths were associated with post influenzal complications.

Applications for Admission

Applications for admission were in excess of last year's, the yearly trend being for a slight increase over the previous year. A total of 127 applications were received.

Eugenics Board Visits, Sterilizations, etc.

The Eugenics Board visited on four occasions and the Visiting Board visited in September, making a complete round of the Hospital. There were 32 cases presented to the Eugenics Board and 33 trainees were sterilized, 22 males and 11 females.

Staff Changes and Activities

The staff situation has remained static.

Health of Trainees and Staff

There has been only one serious health problem during the year and this was presented by the Asiatic Influenzal Epidemic. The entire trainee population with the exception of approximately 50 to 60 of the lower grade population all developed Asiatic Flu and there were three deaths as direct sequelae of this illness.

Immunization procedures were carried out against Diphtheria, Whooping Cough, Enteric Fevers and also against Poliomyelitis for all the patients who had been missed the previous year, due to insufficient supply of Salk Vaccine. Staff members were also immunized with Salk Vaccine, each staff member receiving two injections.

There were no discoverable cases of Tuberculosis.

Dental care has continued with a part-time Dentist serving the School two mornings per week.

Training Program for Nurses and Attendants

This continued as during previous years and is a well attended feature. All training classes are becoming somewhat larger and there is less fall-out each year.

In order to give Second Charges greater orientation and adaptability in relation to ward administration, they are now being alternated to new wards on a three-monthly basis, rather than keeping them fixed on one ward as obtained during previous years. This entails a greater availability of senior and graduate nursing and attendant staff, should there be any emergency wherein they might be required on any ward.

Training Program for Trainees

The School continues to provide academic education up to a Grade VII level. Several meetings were held this year, attended by the School Teachers and Medical Superintendent, in order to work out the fundamental plans to provide material for text books relating to the education of mentally defective children. Plans are now moderately advanced along this line and it is hoped that during the coming year it will be possible to have ready for publication Primers in Reading and Elementary Arithmetic books, suitable for all schools teaching retarded children. These books will, in fact, carry prescriptive techniques necessary to facilitate the teaching of both Reading and Arithmetic.

Children have taken many trips into town with their teachers in order to carry out shopping trips and have also attended farm exhibits and agricultural displays. 109 children have attended academic classes.

Sense Training

The Sense Training program has continued teaching children on a pre-school kindergarten level and there were a total of 79 children attending these classes.

Recreational Activities

Recreational facilities at the Training School have maintained their impetus of previous years. Group activities for older children have been maintained and hockey, broom ball, baseball and ice skating generally are welcomed features amongst the groups.

The trainees visited the Red Deer Fair and exhibited a commendable display of woodwork, fancywork, as well as displaying a Children's Playhouse, complete with furnishings, electrical wiring and radio.

141 children visited the Randall R. MacLean cottage at Gull Lake this year and an entirely new cottage with dimensions of the first one (24' x 50') was completed by five of the mid-grade boys and the Vocational Training Instructor, in just under one month.

A number of tricycles, wagons and bicycles were provided for recreational activities and two new projectors were purchased, one for the school and one for the recreation hall.

Occupational Therapy

There were 130 patients daily attending the Occupational Therapy Classes, taking part in sewing, weaving and soft toy making procedures.

Domestic Science Classes were also continued.

Additional loom tables and stools were purchased for the Occupational Therapy Department.

The shoemaker was provided with a new sole cutter and the Vocational Training Department received a band saw and portable sander.

The carpentry classes are continuing to turn out the same high grade standard of work and a board room for the school was panelled with mahogany plywood, window ledges cut and prepared by two trainees in four days. Average daily attendance at woodworking classes is between 30 and 40 trainees. Some 85 boys attend classes during the week.

Farm Instructor

Due to the rural character of this area it is still necessary to train the boys principally along farming techniques in order to prepare them for ultimate discharge from the School and the male trainees are given a thorough grounding in the care of machinery, farm work and harvest operations.

Shoemaker

The addition of this trade to the School has been of great help in providing occupational therapy for non-ambulant children, as well as the mid-grade trainees and has been most important in seeing that the School shoe repair program is up to date.

Extra Mural Activities

The Parent School Organization has now donated thirteen television sets so that every villa is provided with a T.V. set. They provided the monies necessary for the additional cottage at the Gull Lake site and have continued as a friendly appreciative group in relation to the administration and government.

A total of 94 children went home for the Easter holidays, 185 children went home for summer vacation and 132 went home for Christmas holidays during this year. This is in direct contradistinction to a period ten years ago when children rarely went home for holidays and parents ceased most obligations towards the children once they were admitted to the School.

The senior staff of the School gave 18 talks during the year to service clubs, Home and School Associations and women's groups.

Guidance Clinic psychiatric facilities were provided from this School for the Red Deer Clinic, Rocky Mountain House Clinic and the Calgary Guidance Clinic.

New Construction

During 1957 the Buildings Branch of the Department of Public Works has completed the Clinical Building, the Stores Addition to the Recreation Hall, the Stores Building Addition and has started the construction of a new Carpenter Maintenance Shop. Construction was completed on the new Infirmary Ward. New refrigeration units have been installed in the Stores Building and work has been started on the construction of a small Kitchen Addition with a ramp leading from the Stores to the Kitchen Area. Natural gas service has been installed in the farm area resulting in a complete conversion of the heating system in all farm buildings from coal to gas. Work was also started on a Tool Storage Building in the Greenhouse area.

Stores

The completion of the Stores Building Addition has greatly improved the facilities in this department and has enabled the establishment of a slightly higher Stores Inventory, which helps to provide better service to the other departments of this Institution. The installation of the refrigeration units makes it possible to store all pork from the farm, thus eliminating the locker rental paid to the local cold storage plant in previous years. It has also facilitated the delivery of packing house supplies in that larger shipments can now be accepted, thus elminating some of the last minute menu changes made necessary when former weekly shipments failed to arrive on schedule.

Kitchen and Dining Room

The facilities of these Departments have been improved by the installation of a new and larger dishwashing machine, a large meat grinder, a rotary electric toaster and a new steam oven. Also some new chairs have been provided for the Staff Dining Room.

Laundry and Linen Repair Room

The operation of the Laundry has been improved by sending some of the excess wash to the Deerhome Laundry, which has enabled the staff of this department to cope more adequately with their work and put more effort into the improvement of the general quality of their work. Also, the amount of linen in the Central Linen Supply has been increased, which has eliminated some of the delays in the delivery of clean linen to the Wards.

A new set of laundry scales are in process of installation, which will enable the staff to arrive at more accurate soap and starch formulas.

An additional new stocking darner has been installed in the Linen Repair Room. The total number of new articles manufactured in this department has been about the same as the previous years.

Farm

Cereal crops yielded higher than in 1956 and were of exceptionally good quality. Barley yielded 80 bushels to the acre on summerfallow and one small 2-acre patch of certified oats grown for seed produced a total of 300 bushels. Hay crops were lighter than in 1956 due to the hot dry weather experienced in the spring, but some hay was carried over from the previous year, which will allow a sufficient amount of feed for this winter. Greenfeed yield was about average. Pastures suffered from lack of moisture during the early spring and summer months, but produced well later in the summer. Milk production decreased slightly from the previous year due to the death of one good cow and the disposal of two others owing to physical defects. Pork prouction was about the same and egg production showed an increase.

Garden

Most vegetables yielded well. Carrots, parsnips and beets about the same as the previous year. Turnips were average as to size and crop yield. The potato crop suffered frost damage on the 26th of August, which cut the yield considerably. Some difficulty was experienced in handling the cabbage crop owing to the early fall of snow, but the gardeners were able to save most of it. Increased greenhouse space would be useful inasmuch as it would greatly accelerate crop development and cut losses due to abnormal inclement weather.

Grounds

The area of landscaped grounds has continued to increase, making an estimated total of some 25 acres seeded to lawns. About 53,000 bedding-out plants were set out last spring, all of which were started from seed in the School's greenhouse. Twelve hundred yards of black dirt were levelled in various areas. Approximately 1,000 shrubs and trees were set out by the Lacombe Nurseries, these included some hedges, making a total of some 2,600 shrubs and trees to maintain. Newly landscaped areas included the grounds around the new Clinical Building and the southern end of the front slope. A new rock garden was built beside the steps on the front slope and an ornamental pool was constructed in the rockery at the Main Building. Also the lawn sprinkler has been extended to include more of the front slope as well as the area around the new Clinical Building.

Wards

The new Infirmary Ward was completely equipped with new furniture, equipment and furnishings. Various other Wards were supplied with replacement items such as beds, tables, chairs, cribs, polishers, etc., which were necessary to keep these areas properly equipped and furnished.

Service Departments

Some of the older items of equipment such as the dishwasher, meat grinder, toaster, etc., were replaced in the Kitchen and Dining Room area. New laundry baskets, a laundry scale and a stocking darner were purchased for the Laundry and Linen Repair Room. A major improvement in the farm area was the purchase and installation of a new swill cooker for the pig barn.

Appreciation

The Superintendent would like to express his thanks to the staff members under his supervision for the high calibre of work and effort they have put out on behalf of the School, particularly during the Influenzal Epidemic when even the School Teachers asked to be assigned to the wards to help in the nursing of the seriously ill, and to Dr. Randall R. MacLean, Director, Division of Mental Health, for his unceasing efforts on behalf of the School and his unfailing help at all times.

TABLE 1
MOVEMENT OF FEEBLEMINDED POPULATION

MOVEMENT OF PEDLEMIN	NDED	POPU	LATIO	IN		
	M	F	T	M	F	т
Defectives on books of Institution as at						
1st January, 1957				392	306	698
ADMISSIONS:						
1. First admissions—voluntary	14	15	29			
2. Re-admissions	25	16	41			
3. Transfers						
Total number of admissions	39	31	70	39	31	70
TOTAL NUMBER OF DEFECTIVES ON						
THE BOOKS DURING 1957				431	337	=00
				401	221	768
SEPARATIONS:						
1. Discharges	34	19	53			
1 Female to P.M.H.						
1 Male to Cerebral						
3. Deaths	1	. 1	2			
3. Deaths	1	5	6			
Total number of outgoing	36	25	61	36	25	61
DEFECTIVES ON BOOKS OF THE				_		
INSTITUTION AT 31st DECEMBER, 1957				205	210	mor.
200 D20111111111111111111111111111111111				395	312	707

		H	11057 11052 11052 11052 1105 1105 1105 1105 1	707
	TOTALS	[x4	:: 42.88.83:: 1.48.88.83:: 1.48.88.83:: 1.48.88.83:: 1.48.88.88.88.88.88.88.88.88.88.88.88.88.	312
70		M	1114 1114 1118 1188 1188 1188 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3	395
WITH REFERENCE TO MENTAL STATUS	田	Т	помпн	12
	BORDERLINE	Į.		4
	BO	M	H4.0 H	00
FEREN		H	212 24 24 28 27 27 27 27 27 27 27 27 27 27 27 27 27	173
VITH RE	MORON	[II.	7220	73
(FIED W		×	945000000000000000000000000000000000000	100
CLASSIFIED		T	48888881 x 4 0 H H	346
ATION	IMBECILE	Ħ	8188 E C C C C C C C C C C C C C C C C C C	148
POPUI	I	M	25.75.80 0 8 T 2 - 1 2 I I	198
RESIDENT POPULATION		T	23.53.53.53.53.53.53.53.53.53.53.53.53.53	176
OF	IDIOI	[II4	17327433117575	87
AGE		M	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	68
	AGE GROUP		0 - 4 5 - 9 4 15 - 19 20 - 24 20 - 24 30 - 34 40 - 34 45 - 49 45 - 49 46 - 49 60 - 64	TOTALS

TABLE 3
MENTAL STATUS OF FIRST ADMISSIONS, READMISSIONS AND TRANSFERS

Mental Status	First Admissions		Readmissions			Transfers			Totals			
	M	F	Т	M	F	Т	M	F	Т	M	F	Т
IDIOT	1	1	2							1	1	2
IMBECILE	3	6	9	4	7	11				7	13	20
MORON	7	6	13	19	8	27				26	14	40
BORDERLINE	3	2	5	2	1	3				5	3	8
TOTALS	14	15	29	25	16	41				39	31	70

 ${\small \mbox{TABLE 4}}$ AGE GROUP OF FIRST ADMISSIONS, READMISSIONS AND TRANSFERS

Age Group	A	First Admissions		Readmissions			Т	Transfers			Totals		
	M		F T	M	F	Т	M	F	Т	M	F	Т	
5 - 9	6	3	9							6	3		
10 - 14	3	8	11		1	1	****		****	3	9	12	
15 - 19	2	3	5	2		$\bar{2}$				4	3	14	
20 - 24	2		2	12	8	20				14	8	22	
25 - 29	1	1	2	11	4	15				12	5	17	
30 - 34													
35 - 39												****	
40 - 44		****			2	2					2	2	
45 - 49					1	1		****		****	1	ī	
TOTALS	14	15	29	25	16	41				39	31	70	

TABLE 5
DEATHS CLASSIFIED WITH REFERENCE TO CAUSE OF DEATH, AGE,
MENTAL STATUS, YEARS IN RESIDENCE

Cause of Death		AGE	IDIOT			IMBECILE			MORON			YEARS IN	
		AGE	M	M F		T M F		Т	M	F T		RESIDENCE	
	Other diseases												
	of Heart	38		****			1	1				2/10	
1	Pneumonia	24/8								1	1	10/6	
L	r neumoma	11 13/3		1	1						****	2/2	
		19	****	Ŧ	1	****	****			***	****	8/4	
		16/2	****	T	T			****				15/1	
	TOTALS	10/2						٠٠	1		1	3/5	
	101ALS			3	3		1	1	1	1	2	42/4	

TABLE 6
DENTAL CARE

Examinations	1.375
General Anaesthetics	85
Extractions	190
Fillings (Silver)	
rinings (Sincare)	107
Prophylaxis	25
Scaling	18
Complete Dentures	5
Denture Repairs	1
Gold Inlay	4
Gold Inlay X-rays	1
X-rays Gingivectomy	5
angrice only	6

THE EUGENICS BOARD

The Eugenics Board for the Province of Alberta held eleven meetings during the year 1957. These meetings were held at the Provincial Mental Hospital, PONOKA, the Provincial Training School, RED DEER, and the Provincial Mental Institute, ED-MONTON. The dates of the meetings held during 1957 were as follows:

February 1st, 19	957 -	The	Provincial Mental Hospital, PONOKA
February 1st, 19	957 -	The	Provincial Training School, RED DEER
April 12th, 1957		The	Provincial Mental Hospital, PONOKA
April 12th, 1957		The	Provincial Training School, RED DEER
May 31st, 1957 -		The	Provincial Mental Hospital, PONOKA
May 31st, 1957 -		The	Provincial Mental Institute, EDMONTON (Meeting held at the Provincial Mental Hospital, PONO KA, for presentation of Provincia Mental Institute cases)
September 19th	, 1957	The	Provincial Training School, RED DEER
September 20th	, 1957	The	Provincial Mental Hospital, PONOKA
November 21st,	1957 -	The	Provincial Mental Institute, EDMONTON
November 22nd	, 1957	The	Provincial Mental Hospital, PONOKA
November 22nd	, 1957	The	Provincial Training School, RED DEER

The Board considered a total of 129 cases, one of which was deferred. Of the 128 cases which were passed by the Board in accordance with The Sexual Sterilization Act (RSA-1955-C311), 46 were male and 82 female. Of this number 23 were passed subject to their own consent, and 2 were passed subject to consent of patient and parent.

Of the 128 cases passed by the Board during the year, 63 had been first examined at a Provincial Guidance Clinic, although some of these had been institutionalized prior to presentation. This group of 63 cases was made up of 24 males and 39 females.

Operations

Operations were performed on 82 cases during the year, 49 being male and 33 female. All of these operations were performed at the Provincial Mental Hospital, PONOKA, with the exception of three cases which were operated upon at the Provincial Mental Institute, EDMONTON, and one case which was operated upon at the University of Alberta Hospital, EDMONTON, by request and by special financial arrangement.

The surgical operations mentioned above were performed by the Surgical Consultants, Dr. J. W. Richardson, of CALGARY, or Dr. J. Ross Vant, of EDMONTON.

General

Dr. J. W. Richardson tendered his resignation as Surgeon to the Eugenics Board, to become effective on the last day of 1957. Dr. Richardson's appointment had been recommended by the Board at a meeting held at the Provincial Mental Hospital, PONOKA, on August the 8th, 1940, and he performed surgery on Eugenics Board cases for the first time on September the 3rd, 1940. Dr. Richardson took the place of Dr. Robert O'Callaghan who resigned in June, 1940, because he was leaving the province. A letter from the Eugenics Board to the Honourable the Minister of Health, Dr. J. Donovan Ross, in regard to Dr. Richardson's resignation, stated: "Dr. Richardson has always been highly regarded by the Board, both on account of his skill as a Surgeon and his personal qualities as a fine gentleman. He has always been most cooperative in the discharge of his duties."

Appreciation

As in previous years the Eugenics Board wishes to express its sincere appreciation and thanks to the Director, Division of Mental Health, to the Medical Superintendents and their staffs, and to the Guidance Clinics, for their cooperation in connection with the work of the Eugenics Board.

Tabular Summary

A tabular summary of the work of the Provincial Eugenics Board to December 31st, 1957, is appended.

CASES PRESENTED AND PASSED (To 31st December, 1957)

Years		ARLY TOT	ALS	CUMU	JLATIVE	TOTALS
rears	Male	Female	Totals	Male	Female	Totals
1929-1933 1934-1938 1939-1943 1944 1945 1946 1947 1948 1949 1950 1951 1951 1952 1953 1954 1956 1956	87 557 339 56 54 52 38 37 52 37 34 21 43 41 61 38	201 438 299 73 64 53 68 57 60 48 36 38 40 48	288 995 638 129 118 105 91 105 109 97 82 57 81 109 72	87 644 983 1039 1145 1183 1220 1272 1309 1343 1364 1407 1448 1509 1547	Female 201 639 938 1011 1075 1128 1181 1249 1306 1366 1414 1450 1488 1528 1576	Totals 288 1283 1921 2050 2168 2273 2364 2469 2578 2675 2757 2814 2895 2976 3085 3157
1501	46	82	128	1593	1692	3285

OPERATIONS ONLY

(To 31st December, 1957)

	YE	ARLY TOT	ALS	CUMI	JLATIVE	TOTALS
Years	Male	Female	Totals	Male	Female	Totals
1929-1933	48	158	206	48	158	206
1934-1938	198	240	438	246	398	644
1939-1943	122	151	273	268	549	917
1944	13	27	40	381	576	957
1945	18	29	47	399	605	1004
1946	24	31	55	423	636	1059
1947	16	15	31	439	651	1090
1948	16	22	38	455	673	1128
1949	20	27	47	475	700	1175
1950	21	46	67	496	746	1242
1951	16	41	57	512	787	1299
1052	6	18	24	518	805	1323
1052	21	30	51	539	835	1374
1054	37	25	62	576	860	1436
1955	45	25	70	621	885	1506
		24	46	643	909	1552
1956	22		82	692	942	1634
1957	49	33	82	092	342	1001

NATIONAL HEALTH GRANTS

1956 - 57 FISCAL YEAR

Since 1948 the Federal Government has assisted the public health services of the various provinces by the National Health Grants Program. These grants were devised for special purposes as outlined in the list below. Various amounts are made available to be distributed in relation to projects. The project must be recommended by the Provincial Department and approved by the Department of National Health.

In drafting the project, it is necessary to commit funds from the grant but, in the end, the full amount committed is not usually expended, so provinces usually do not manage to collect 100% of the possible grants.

The grants in relation to Venereal Disease, Cancer Control, Laboratory and Radiological Services, Child and Maternal Health, and Hospital Construction are "matching grants". That is, for services rendered under these grants, the Province must put up dollar for dollar with the Federal Government, although these grants may be used for professional training and for the purchase of equipment with the cost borne 100% by the Federal Government.

NATIONAL HEALTH GRANTS ALBERTA 1956-1957

Grant	Amount of Grant	Amount Committed	Amount Expended	Percentage of Grant Expended
Crippled Children Professional Training Venereal Disease Control Mental Health Tuberculosis Control General Public Health Cancer Control Laboratory and Radiological Services Medical Rehabilitation Child and Maternal Health Hospital Construction	\$ 36,604.00 36,604.00 502,007.00 249,875.00 533,000.00 245,920.00 479,700.00 71,229.00 135,168.00 455,933.00	\$ 36,604.00 35,899.91 36,604.00 458,740.11 230,335.00 533,000.00 245,920.00 33,462.94 71,229.00 121,045.00 936,797.77	\$ 36,604.00 33,355.98 36,604.00 432,155.68 219,811.39 499,133.84 245,920.00 30,016.93 67,199,32 118,676.55 861,672.77	100 % 91.1 % 100 % 86 % 87.9 % 93.6 % 100 % 6.2 % 94.3 % 87.7 % 86.2 %
TOTALS	\$2,782,644.00	\$2,739,637.73	\$2,581,150.46	77.6%

NOTE: The Hospital Construction Grant is an accumulative grant which accounts for the "Committed and Expended" figures being greater than the grant for the 1956-57 fiscal year. However, the percentage expended refers only to this year's grant.

BLOOD TRANSFUSION SERVICE

D. I. BUCHANAN, M.D., D.P.H., Edmonton E. NATION, M.B., M.R.C.P., Calgary

No province in Canada, and to the best of our knowledge no transfusion centres anywhere possess a more technically complete, as well as free, blood transfusion service than Alberta. During the past ten years and up to the beginning of 1957, one quarter of a million blood transfusions had been administered to hospital patients in this area, the great majority having been crossmatched for the individual recipients in the two Alberta depots.

By January and February, 1957, however, it appeared that a combination of Red Cross financial difficulties, and difficulties in attracting qualified staff would greatly reduce the service insofar as crossmatching within the depots was concerned—although none of the hospitals were in a position to take over this technical responsibility.

Through the assistance of the Government of the Province of Alberta, by way of a grant of \$100,000.00 the first problem was met and later on the staffing situation became somewhat easier, culminating in a program whereby a small number of technicians were trained specially in this work—under the joint auspices of the University of Alberta, the Department of Public Health, and the Edmonton Red Cross B.T.S. It is desirable that this training program should be continued and expanded to take in a small number of student technicians from both the north and south of the province each year.

Voluntary Blood Donations

The total number of blood donations received during 1957 amounted to 54,027, as compared to 54,116 in 1956, 51,156 in 1955, and 54,330 in 1954.

The number of bottles collected in the north and south is shown in Table 1.

TABLE 1 BOTTLES COLLECTED, 1957

Jan. 1 to Dec. 31 (inclusive)	Permanent and City Mobiles		Field Mobile Clinics		
Northern Alberta	12,793	+	14,834 15,843	=	25,391 28,636
Total	23,350	+	30,677	=	54,027

Blood Transfusions

In Northern Alberta during 1957, 18,406 five hundred cc. bottles of blood were administered to a total of 9,369 patients.

In Southern Alberta during the same period 15,303 five hundred cc. bottles of blood were administered to a total of 7,502 patients.

Plasma for Fractionation Products

Apart from a small number of transfusions of fresh plasma (used primarily in cases of hemophilia) all liquid plasma is shipped to the Connaught Laboratories to be processed into the important plasma fractions serum albumin, gamma globulin, and fibrinogen.

Since in the Edmonton region the use of whole blood transfusions, and particularly *fresh* whole blood therapy had greatly expanded in 1957, there was a very considerable reduction in the amount of plasma available for the fractionation program. Only 258 four-litre pools were shipped from Edmonton in 1957 as compared to 402 plasma pools in 1956; whereas from Calgary 342 plasma pools were dispatched to the Connaught Laboratories in 1957, as compared to 447 four-litre pools in 1956. The supply of empty flasks from the National Red Cross in Toronto was inadequate for our requirements.

Rh and Other Blood Group Investigations (Obstetrical Cases, etc.)

In the Edmonton laboratories 23,589 antenatal and postnatal blood samples were investigated during 1957, 24,030 having been tested in 1956.

In the Calgary laboratories, 14,672 antenatal and postnatal blood samples were tested in 1957, 13,413 being the corresponding total for the previous year.

Research

In 1957, another manuscript was prepared in our Edmonton centre on a locally discovered rare Rh blood type, this time in a Canadian family of German origin. Following the publication of the technical details, requests for reprints have been received from numerous countries throughout the world on both sides of the "Iron Curtain". The main value of such applied research is surely that any added knowledge tends to make transfusion therapy safer for a growing number of patients.

Again we would like to express our sincere thanks to the many volunteers and also staff who have made this service possible by their hard work.









PART II

ANNUAL REPORT

OF THE

HOSPITALS DIVISION

OF THE

DEPARTMENT OF PUBLIC HEALTH
PROVINCE OF ALBERTA

1957

CONTENTS

		rage
1	Introduction	1
1.	Hospitals Division	1
	Acts Administered by Hospital Division	1
	Hospital Insurance Planning Committee	2
	The Hospitalization Benefits Act	
2.	Benefits	
3.	Coverage	3
4.	Alberta Approved Hospitals	4
5.	Alberta Municipal Hospital Districts	5
6.	Financing Hospitalization	7
	(A) Operating Costs	7
	Provincial-municipal hospitalization	7
	Maternity hospitalization	8 8
	Social Service recipients' hospitalization	0
	Poliomyelitis hospitalization	9
	Summary of Provincial Expenditure	10
	(B) Capital Costs	
	Location and Construction of Hospitals	
8.	. Utilization of Hospital Beds in Alberta	
9.	. Movement of Patients	
	Volume of Hospital Care	12
	Monthly Movement of Patients	13
	Cases and Days by Length of Stay	13
	Cases and Days by Age and Sex	13
	Cases and Days by Hospitalization Benefits	14
10.	. Standard of Services Rendered Within Hospitals	14
11.	. Consulting Services	15
12	. Supervision of Administration of Hospitals	15
13	. Hospital Regulations	15
14	. Private Hospitals	16
15	i. Long Term Active Treatment Hospitalization and Nursing Home Care	16
16	3. Index of Tables	
17	7. Index of Diagrams and Map	

INDEX OF DIAGRAMS AND MAP

			Pag
		Map Showing Location and Type of Alberta Hospitals	(
Diagram I	No. 1	Provincial Grants and Payments for Hospitalization in General Hospitals, 1951-1957	1'
	п	Distribution of Operating Expenditures by Departments, 1956-1957	18
	Ш	Patients and Patient Days in Relation to Bed and Crib Capacity and Hospital Staff, 1947-1957	_ 19
	IV	Monthly Admissions of Adults and Children,	20
	v	Monthly Live Births, 1953-1957	21
	VI	Distribution of Cases and Patient Days by Length of Stay, 1957	22
	VII	Distribution of Cases and Patient Days by Age Group, 1957	23
,	VIII	Average Length of Stay in Hospital by Type of Benefit. 1957	2.5

INDEX OF TABLES

		Page
		rage
Financ		
Table l		
2.	Daily Rates for Standard Ward Care and Special Hospital Services, 1957	
3.	Daily Rates for Maternity Care, 1957	. 8
4.	Daily Rates for Hospitalization of Social Service Recipients, 1957	
5.	Daily Rates for Poliomyelitis Care, 1957	. 9
6.	Break-Down of Provincial Expenditures on Hospitalization Services, 1956 and 1957	. 10
9.	Financial Operations of Approved Hospitals, 1951-1957	_ 25
10.	Grants and Payments to Approved Hospitals	_ 26
11.	Provincial Hospitalization Payments to Local Authorities, 1957 _	
12.	Operating Expenditures—1957	. 35
13a.	Revenue and Expenditure for Operating Purposes— Municipal Hospitals—1957	. 39
13b.	Revenue and Expenditures for Operating Purposes— Other Than Municipal Hospitals—1957	
14.	1957 Tax Requisitions	41
Moven	nent of Patients and Hospital Facilities	
Table	· · · · · · · · · · · · · · · · · · ·	
1.	Number of Hospitals and Percentage Distribution of Bed	
	Capacity and Patient Days by Hospital Group, 1957	5
7.	Increases in Hospital Beds and Bassinet Capacity, 1957	. 11
8.	Additions to Hospital Bed and Bassinet Capacity under Construction	
15.	Hospital Days and Patients Under Care 1947-1957	50
16.	Hospitalization Admissions, Discharges and Days per 1,000 population, 1947-1957	50
17.	Monthly Movement of Patients, 1957	51
18.	Patient Days by Hospital Group and Month, 1957	. 52
19.	Distribution of Cases and Patient Days of Discharged Patients by Length of Stay in Days, and Sex—1957	53
20.	Hospitalization of Patients by Age and Length of Stay	53
21.	Percentage of Distribution of Cases and Days of Discharged Patients and their Average Length of Stay by Age Group and	54
22.	Sex, 1957 Discharged Patients and Their Average Length of Stay by Age Groups, 1951-1957	. 54
23.	Hospitalization of Patients by Type and Days of Stay 1957	55
24.	Percentage Distribution of Patients According to Type of Benefit, 1957	56
25.	Average Length of Stay in Hospital of Discharged Patients by Type of Benefit, 1951-1957	56
26.	Utilization of Hospital Services under the Provincial- Municipal Hospitalization Program, 1951-1957	56
27.	Number of Social Service Recipients as at December 31, 1957	
28.	Hospital Utilization of Social Service Recipients and Their Average Length of Stay by Group, 1952-1957	
29.	Patient Days and Occupancy by Hospital—1957	
30.	Hospital Beds and Movement of Patients by Hospital—1957	62
31.	Active Treatment Hospital Beds, 1949-1957	
32.	Hospital Staff—Full-time and Part-time, 1955-1957	
32. 33.	Hospital Staff as at December 31, 1957, by Hospital	
00.	TIOSPICAL SCALE AS AL D'OCCILISOL OL, LOUI, SJ TIOSPICAL	

HOSPITALS DIVISION

J. D. CAMPBELL, B.COM., M.COM., F.C.A., R.I.A., Director

1. INTRODUCTION

Hospitals Division

The Division of Hospital and Medical Services operated as one division to June 30, 1957. To the end of 1956, that division compiled the Annual Report incorporating data on both hospital services and medical services. Effective July 1, 1957, that division became two separate divisions—the Hospitals Division and the Division of Medical Services—each with its own Director. Accordingly, this Annual Report of the Hospitals Division will deal solely with matters pertaining to hospitalization. Medical services data provided by the Division of Medical Services will be included elsewhere in this departmental report.

The Ministerial Order creating the separate divisions established the duties and responsibilities of the Hospitals Division as including all matters concerning all hospitals, except mental hospitals and tuberculosis sanatoria, covered under any plan of hospitalization operated by the Province of Alberta including facilities, hospital staff and administrative procedures which entail hospital expenditure. On the basis of this principle, the Order enumerated the duties of the Hospitals Division as follows:

- 1. Location and construction of hospitals.
- 2. Level of services rendered within a hospital.
- 3. Provision of consulting services involving the operation of a hospital to the extent and at such a time as it is considered necessary.
- 4. The supervision of administration of hospitals other than in respect to medical services rendered by the hospital medical staff.
- 5. All hospital and nursing training school grants.

6. The following regulations—

Hospital Act—Regulations 1-31 inclusive; Regulations 70-75 and Fire Regulations;

Provincial—Municipal Hospitalization Plan Regulations.

7. Act as the liaison officer (provincial authority) in any matter arising in the field of hospitalization.

The Director of the Division of Medical Services is Medical Consultant to the Hospitals Division.

Acts to be Administered by Hospitals Division

The provincial statutes to be administered by the Hospitals Division are as follows:

The Hospitals Act.

The Hospitals Act

The Municipal Hospitals Act.

The Maternity Hospitalization Act.

The Private Hospitals Act.

Other statutes with which the Hospitals Division is involved insofar as hospitalization is concerned are:

The Hospitalization and Treatment Services Act.

The Cancer Treatment and Prevention Act.

The Poliomyelitis Sufferers Act.

Hospital Insurance Planning Committee

On July 3, 1956, a Hospital Insurance Planning Committee of two persons was created to evolve a draft of a plan, together with any suggestions pertaining to legislation, for the consideration of the Minister and the Lieutenant Governor in Council, in the matter of programming a Hospital Insurance Plan. The planning committee met with various interested groups throughout the province with a view to giving and accepting information prior to drafting new legislation and regulations in order to eliminate to the extent possible the areas of difficulty in the existing plans. Briefs were received from The Associated Hospitals of Alberta, The College of Physicians and Surgeons of Alberta and The Canadian Medical Association (Alberta Division), and The Alberta Association of Registered Nurses. Resolutions were received from The Alberta Association of Municipal Districts and Union of Alberta Urban Municipalities.

The members of the Committee were subsequently appointed Director and Assistant Director of the Hospitals Division on creation July 1, 1957.

The Hospitalization Benefits Act

The Hospitalization Benefits Act was assented to by the legislature April 11, 1957, to come into force on a day to be fixed by proclamation of the Lieutenant Governor in Council. This Act was designed, in conjunction with the Municipal Hospitals Act, to be the foundation of the Alberta hospitalization program with a view to participating in the federally sponsored hospitalization insurance plan. The Hospitalization Benefits Act was not proclaimed during 1957. The several previously listed Acts remained in force throughout 1957 and have a direct bearing on the type of information contained in this report.

2. BENEFITS

Since the Acts listed above have been in effect for a number of years and as hospital benefits provided thereunder ceased March 31, 1958, with the coming into force April 1, 1958, of The Hospitalization Benefits Act, an itemized list of benefits by Acts is not included in this report. Generally speaking, insured benefits included hospitalization at standard ward level and special hospital services.

Standard ward care meant the bed accommodation provided to the patient when private or semi-private accommodation has not been requested and include the routine services such as meals, nursing care, drugs, medications and dressings ordinarily provided without extra charge.

Special hospital services included all hospital procedures, treatment, services, care, tests, drugs and dressings and medications as are not included in standard ward care and are necessary for the proper care, diagnosis and treatment of the patient with a limited number of stated exceptions. There were no changes in the exclusions during 1957.

Referred and emergency hospitalization inside or outside of the province were paid under the provincial-municipal hospitalization plan at a maximum rate of \$10.25 to June 30, 1957 and at a maximum rate of \$11.25 from July 1, 1957.

Out-patient services were not insured benefits and the responsibility for payment for such services rested with the patient.

3. COVERAGE

One of the aspects of the provincial-municipal plan was its voluntary nature. Municipalities and municipal hospital districts (a voluntary joining of 2 or more municipalities or portions thereof) voluntarily agreed to pay hospitals with which they had an agreement the rate set by this Division for hospitalization of its ratepayers and contract holders. The hospitals voluntarily signed the agreement to accept the payment as payment in full for standard ward care, except for per diem grants from the Department and an authorized co-insurance payment by the patient. Ratepayers and dependents were automatically covered when hospitalized in a hospital with which the municipality in which they live had signed an agreement or in any hospital if coming under the category of an emergency case away from home or a medically referred case. Resident non-ratepayers could, if they desired, purchase a hospitalization contract from the municipality at a cost ranging from \$10.00 to \$14.00 per year per single person or a whole family, the cost of the contract depending on the classification of the hospital with which the municipality had an agreement.

Coverage under the Maternity Hospitalization Act, the Hospitalization and Treatment Services Act (social welfare recipients—persons and dependents in receipt of assistance under The Old Age Assistance Act, The Mothers Allowance Act, The Supplementary Allowance Act, The Widows Pension Act and The Blind Persons Act and disability pensioners), the Poliomyelitis Sufferers Act and The Cancer Treatment and Prevention Act was available without premium to residents of the province with the exception that social welfare recipients must have been in possession of a hospitalization card issued by the Department of Public Welfare. A resident of the province was a person who has resided in the province for 12 consecutive months out of the 24 months immediately preceding admission to hospital or the spouse of a resident. Non-residents having established an abode in Alberta and becoming ill with poliomyelitis in the province were also eligible for benefits. Persons whose hospitalization was the responsibility of the federal government or the Workmen's Compensation Board were not eligible for benefits under the various Acts.

There were no age restrictions regarding coverage under the provincial-municipal hospitalization plan as, indeed, was the case under most of the other Acts. There were no excluded conditions or waiting periods due to pre-existing conditions. Insured benefits were provided as long as active treatment was required.

The percentage of population covered by provincial plans steadily increased since the inception of the provincial-municipal plan in 1950. As coverage under various Acts were contingent, in the main, on being a resident of the province a participation in the provincial-municipal plan was voluntary, especially for non-ratepayers, 100% coverage of persons living in the province was unlikely.

Of the total patients hospitalized in Alberta approved hospitals during 1957, 74.3% received benefits under one type of provincial program or another. Non-residents, recipients of War Veterans Allowance and Indians hospitalized in Alberta hospitals accounted for 4.7% of total patients leaving 21% not qualified for benefits (see table 24). Hospitalization insurance through Blue Cross and other insurance companies and through employers had an effect on the number of non-ratepayers who did not purchase a hospitalization contract under the provincial-municipal plan.

4. ALBERTA APPROVED HOSPITALS

Approved hospitals in the province were classified into five groups according to their facilities and the services they were capable of providing from the standpoint of physical plant, equipment and medical staff. Group A hospitals comprised the large hospitals in the cities of Edmonton, Calgary, and Lethbridge, the Municipal Hospital and St. Michael's Hospital, Lethbridge having been reclassified to A group effective December 1, 1957. Group B hospitals were mainly located in the small cities. The four Group E hospitals were outpost hospitals and received a special outpost grant of \$1.80 per adult day and \$1.30 per child day. The majority of hospitals fell within C and D group and were mainly located in towns throughout the province. Several group D hospitals were reclassified to C group effective April 1, 1957.

Approved hospitals are active treatment public hospitals which received a per diem allowance on behalf of all residents hospitalized in them. Not included under approved hospitals are "chronic" hospitals, mental hospitals, tuberculosis sanatoria, private hospitals and nursing homes. The hospital statistics presented in this report pertain to approved hospitals only and do not include these latter institutions.

The Mercoal Hospital became an approved hospital municipally owned and operated on July 1, 1957, thereby increasing the total number of approved hospitals in the province to 101. In 1957 these hospitals were distributed among the 5 hospital groups as indicated in the following table:

TABLE 1

NUMBER OF HOSPITALS AND PERCENTAGE DISTRIBUTION OF BED CAPACITY
AND PATIENT DAYS BY HOSPITAL GROUP, 1957

		PERCENTAGE		
Hospital	Number of	Bed	Adult and	
Group	Hospitals	Capacity	Children Days	
A† B C D E	6	44.6	48.9	
	9	16.5	13.7	
	44	26.4*	25.1	
	38	11.3	11.1	
	4	1.2	1.2	
	101**	100.0	100.0	

[†] Two Lethbridge Hospitals classified as A effective December 1, 1957, included with B hospitals.

* Lloydminster not included.

As at December 31, 1957 these hospitals were owned and operated as follows:

	Hospital	Beds
Municipal Municipally owned and Community Denominational Industrial Service Group Provincial	35 1	2,251* 1,123 2,649 12 162 827
	101	7,024

^{*} Lloydminster included in municipal hospital count but beds not included.

The Lloydminster Union Hospital, situated just inside the Saskatchewan western border, is partially owned by the Lloydminster Hospital District in Alberta and approximately one-half its patient days are occasioned by Alberta residents. It is included as a municipal hospital.

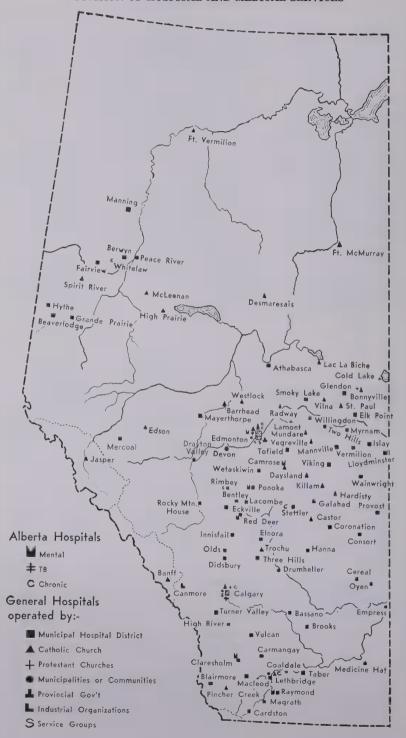
5. ALBERTA MUNICIPAL HOSPITAL DISTRICTS

As of December 31, 1957, there were 73 municipal hospital districts operating in the province with 57 of them operating their own hospitals, and the remaining 16 functioned under agreement with other hospitals. One new municipal hospital district operating its own hospital was created during the year (Mercoal).

During 1957 the municipal hospital districts of the province provided a comprehensive hospitalization service for their residents under the Provincial-Municipal Hospitalization Plan.

Under the Plan, the hospital district obtained its funds by requisition on the municipal units comprising the district. Where it operated a hospital, a district requisitioned the contributing municipalities for operating and capital cost. A hospital district which did not own its own hospital requisitioned its contributing municipalities for funds to pay denominational or other hospitals the agreed rate for hospitalizing its ratepayers and contract holders.

^{**} Hythe sub-hospital of Grande Prairie Municipal Hospital and the isolation hospitals of Edmonton and Calgary are not included as separate hospitals in hospital count.



6. FINANCING HOSPITALIZATION

(A) Operating Costs

Under the various provincial plans, with the exception of the provincial-municipal plan, the province paid from general revenue at rates set by the Department designed to cover the cost of services provided for by the Acts. These payments were made direct to hospitals on a patient day basis. The amounts paid under each Act and through per diem and extra per diem allowances and a per case payment for maternity cases appear in the tables which are part of this report.

The hospital rates set by the Department were governed by the cost experience of hospitals by groups. With hospitals grouped from "A" representing large city hospitals to "E" representing small out-post hospitals, averages were struck for each group. An increase of \$1.00 per patient day for all classifications of hospitals was granted effective July 1, 1957. To the extent that a hospital operated at less than the patient day rate paid, plus room differential and other offset revenue, the hospital was allowed to keep the surplus. To the extent that a hospital's expenditures exceeded all sources of revenue, the deficit incurred was borne by the owners of the hospital. To secure funds by tax requisition to meet its obligations, including operating its hospital and paying for hospitalization of its ratepayers and contract holders in other hospitals, the hospital districts submitted operating and capital budgets requiring the approval of the Board of Public Utility Commissioners. Depreciation was not included in operating costs and therefore not covered by the rates set.

Payments by the province to Alberta hospitals were made only to "approved" hospitals which meant a hospital qualified to receive a per diem allowance under The Hospitals Act from the Department of Public Health.

There are 11 general hospitals and 1 mental hospital operating schools of nursing. In addition to patient day payments, a \$300.00 grant per nurse graduated was paid by the province to the hospitals operating the schools of nursing.

The patient was required to pay a co-insurance charge ranging from \$1.50 to \$2.00 per patient day for hospitalization under the provincial-municipal plan and to pay room differential for private or semi-private room. Social welfare recipients, maternity patients and poliomyelitis patients after fourteen days did not pay co-insurance as this was included in the rates paid by the province. A daily rate for newborns was not paid.

Provincial-Municipal Hospitalization

As the term indicates, the provincial-municipal plan was financed jointly by the province and municipalities. Municipal hospital districts or municipalities owning hospitals operated the hospitals and received payment from the province of 60% of the hospital rate set to cover operating costs excluding per diem allowance paid solely by the province. The municipal portion is 40%. The revenue received from the sale of hospitalization con-

tracts ranging from \$10.00 to \$14.00 per person or per family remained with the hospital district or municipality. In those areas where hospitalization needs were provided by Sister or other non-municipal hospitals, the municipality agreed to pay the rate set by the Department for the hospital and the municipality received a 60% refund of payments made for hospitalization of its ratepayers and contract holders. (See Table 11.)

The following table shows the net payments to hospitals and the percentage distribution of costs according to responsible parties under the Provincial-Municipal Hospitalization Program as at December 31, 1957.

TABLE 2

DAILY RATES FOR STANDARD WARD CARE AND SPECIAL HOSPITAL SERVICES, 1957

Hospital Baymont by Baymont b

Amount % Amount % Amount % Amount % A \$2.00 13.5 \$4.50 30.5 \$8.25 56.0 \$14.75 100.0 B 1.80 14.3 3.72 29.5 7.08 56.2 12.60 100.0 C 1.60 14.3 3.24 28.9 6.36 56.8 11.20 100.0 D 1.50 13.9 3.12 28.9 6.18 57.2 10.80 100.0 E 1.30 11.3 2.76 24.0 7.44 64.7 11.50 100.0	Hospital Groups	Payment by Patient		Payment by Municipality		Payment by Government		Total	
B 1.80 14.3 3.72 29.5 7.08 56.2 12.60 100.0 C 1.60 14.3 3.24 28.9 6.36 56.8 11.20 100.0 D 1.50 13.9 3.12 28.9 6.18 57.2 10.80 100.0		Amount	%	Amount	%	Amount	%	Amount	%
	B C D	1.80 1.60 1.50	14.3 14.3 13.9	3.72 3.24 3.12	29.5 28.9 28.9	7.08 6.36 6.18	56.2 56.8 57.2	12.60 11.20 10.80	100.0 100.0 100.0

^{*} Payments for children under 16 years of age were \$1.00 less.

Maternity Hospitalization

Under the Maternity Hospitalization Program, standard ward accommodation was provided for any mother who was a resident of Alberta and for her infant up to a maximum of twelve days for any one confinement. Alberta approved hospitals were paid by the provincial government at the following rates, including payment for newborn of per diem allowance (\$1.00) and extra per diem allowance (50c), varying according to the class of hospital as is shown in the table below:

TABLE 3
DAILY RATES FOR MATERNITY CARE, DECEMBER 31, 1957

Hospital Group	Basic Rate	DAILY Plus Allowance Mother	RATE Plus Allowance Newborn	Total	Plus Per Case Payment
A	\$9.25	\$1.50	\$1.50	\$12.25	\$35.00
B	7.90	1.50	1.50	10.90	25.00
C	7.30	1.50	1.50	10.30	21.00
D	7.30	1.50	1.50	10.30	17.00
E	8.80*	1.50	1.50	11.80	13.00

^{*} Including Outpost Grant.

Grant of \$40.00 was paid to any woman resident who was confined in her own home, amounting to \$9,120.00 on behalf of 228 claims in 1957.

Social Service Recipients' Hospitalization

During 1957, as during 1956, persons eligible under the program of health care for Social Service Recipients received complete hospitalization care at government expense with very few exceptions. The Daily Hospitalization payments under this

program, including the \$1.50 per day paid in per diem grants, at December 31, 1957 were as follows:

TABLE 4

DAILY RATES FOR HOSPITALIZATION OF SOCIAL SERVICE RECIPIENTS DECEMBER 31, 1957

Hospital Group	First 20 Days	Subsequent to 20th Day
A	\$14.25	\$10.75
В	11.95	9.40
C	11.15	8.80
Ď	10.95	8.80
Ē	12.05*	10.30*

Includes Outpost Grant of \$1.80 per day.

The provincial expenditures for hospitalization on behalf of this group during 1957 was \$2,834,488.05 including per diem grant for an average of 36,620 recipients during the year.

Poliomyelitis Hospitalization

The amount paid to hospitals for the care of poliomyelitis patients during 1957 amounted to \$467,914.50 including appliances and outpatient services. The rates applicable December 31, 1957 were as follows:

TABLE 5

DAILY RATES FOR POLIOMYELITIS CARE, AS OF DECEMBER 31, 1957

	Isolatio		st 14 days in Provincial Pa	yment			Provincial
Hospital Group	Patient Paid Per Day	Ordinary Bed Care	Tracheotomy Cases*		Patient Pays Per Day	Pay Ordinary Care*	ment Extra Payment For Respirators
A B C D E	\$2.00 1.80 1.60 1.50 1.30	\$12.25 10.30 9.10 8.80 7.90	\$31.00 31.00 31.00 31.00 31.00	\$41.00 41.00 41.00 41.00 41.00		\$12.25 10.30 9.10 8.80 7.90	\$15.00 15.00 15.00 15.00 15.00

^{*} Including per diem allowance of \$1.00 per patient day.

The vast majority of polio patients in 1957 were treated in hospitals at Edmonton, Calgary and Banff.

Summary of Provincial Expenditure

Total expenditure by the province for various hospitalization programs during the calendar year 1957 (mental, tuberculosis and cancer expenditure excluded) amounted to \$14,720,873.65, an increase of \$743,955.99 over the preceding year or a rise of 5.3%.

The Provincial-Municipal Hospitalization Plan absorbed 98.5% of the increase; the total expenditure on the Plan increased by 16.3% as compared to 1956.

The amount spent per capita of population was \$12.69 in 1957 as compared to \$12.44 in 1956. The increased payments per capita each successive year are attributed to higher rates paid to hospitals per patient day, increased participation by municipalities in the Provincial-Municipal Hospitalization Plan coupled with a 10% increase in the refund to municipalities, and an increase in total days.

TABLE 6

BREAK-DOWN OF PROVINCIAL EXPENDITURES ON HOSPITALIZATION SERVICES, Hospitalization Programs

Provincial-Municipal Hospitalization Maternity Hospitalization Pension Groups Hospitalization Pension Groups Hospitalization Poliomyelitis Hospitalization (excluding medical services) Per Diem Grant Extra Per Diem Grant Orthopaedic Hospitalization Psychiatric Hospitalization (in General Hospitals) Outpost Hospitalization Maternity (Confinement at Home) Nurses Education Program Hospital Construction Grants† (Fiscal Year 1957-58) Sub Total Mental Hospitalization* Tuberculosis Hospitalization*	2,663,653.30 2,325,017.90 539,353.74 2,020,814.40 769,970.00 48,139.20 65,359.00 19,317.40 9,280.00 146,100.00 888,944.38 \$13,976,917.66 5,716,948.08 1,672,037.83	1957 \$ 5,213,401,41 2,766,481.05 2,453,089.05 467,914.50 2,078,120.80 866,028.40 42,254.00 64,925,020.10 9,120.00 121,600.00 672,919.34 \$14,720,873.65 6,528,544.74 1,797,609.79
Cancer Hospitalization*	52,661.50	60,211.85 \$23,107,240.03

- † Not a payment on hospital operating costs but included in provincial payments. This does not include the federal government share of construction grants paid by the province.
- * These items are not administered through the Hospitals Division and will not appear further in the Hospitals Division report. Particulars regarding these services will appear in the Department of Public Health report under the respective Divisions.

(B) Capital Costs

Capital costs apart from construction or equipment grants have been considered the responsibility of the municipalities. Municipalities owning their own hospitals were responsible for repayment of debenture principle, debenture interest and purchase of major depreciable equipment. Provision was made whereby municipalities could enter into an agreement to pay any hospital not owned by the respective municipalities a patient day depreciation charge for each patient from the municipality. Depreciation agreements were also on a voluntary basis and some municipalities were slow to sign an agreement with denominational hospitals. Over the past 3 years the majority of nonmunicipal hospitals managed to secure a depreciation agreement with the applicable municipalities or hospital districts. However, the formula set for computing the payment to be made by municipalities and districts resulted in payments, the aggregate of which did not meet capital costs.

7. Location and Construction of Hospitals

At a meeting of representatives of The Alberta College of Physicians and Surgeons and the Hospitals Division strategic location of hospitals was discussed. Co-operation and agreement of the College was sought to ensure the availability of medical care in terms of quality and quantity in the various areas throughout the province. The Division is highly appreciative of the College's interest and co-operation in this and other facets of hospitalization.

Agreement was reached at the meeting that a system of regionalization of hospitals is desirable. The small "C", "D" and "E" hospitals in rural areas of a region would be satellites of the regional hospital represented in the main by the present "B" hospitals. These would be larger hospitals in more densely populated areas having more adequate facilities and larger medical

staff. The "A" hospitals in the cities would be base hospitals. The satellite hospitals on the periphery of a regional hospital is encouraged to refer patients requiring treatment or facilities beyond the scope of the small hospital to the regional hospital, provided the services required can be performed in the regional hospital, rather than by-pass it in favor of a base hospital. While regionalization of hospitals to an extent is in effect it has not been stressed. It is planned that more consideration be given to this concept in the future to avoid duplication of facilities as much as possible and from an economic standpoint, to encourage hospitalization as near the patient's home as is compatible with the nature of services required. It is further planned that construction of hospitals in areas not requiring a minimum of twenty-five beds would not be approved.

A survey of the active treatment hospitalization facilities available in the City of Edmonton was made by the Hospitals Division on request of the City Council.

The following hospital additions were completed during the calendar year 1957, a total net increase in active treatment bed capacity of 327 beds and 29 bassinets:

TABLE 7
INCREASES IN HOSPITAL BED AND BASSINET CAPACITY, 1957
(excluding mental and T.B. Beds)

Olds	Beds 10	Bassinets 9
Innisfail Tofield Didsbury	1 11 9	9 11
Edmonton, University	269	****
Total	300	29

During the 1957-1958 fiscal year a total of \$672,919.34 (excluding the federal share) was expended by the province on construction grants. The comparable figure for 1956-1957 was \$888.944.38.

As at December 31, 1957 there were 7,202 active treatment beds and cribs in approved hospitals excluding mental and chronic hospitals and tuberculosis sanatoria. This figure includes 178 beds in the University Hospital, Edmonton, which had become available but were not in use and, therefore, were not included in the tables (see tables 30 and 31). The average number of active treatment beds per 1,000 population at the end of the year was 6.21.

The hospital construction projects which were commenced during the 1957-1958 fiscal year were the following:

ADDITIONS TO HOSPITAL BEDS AND BASSINET CAPACITY UNDER CONSTRUCTION (Excluding Mental and T.B. Beds)

	Net Increase in Beds	Net Increase in Bassinets
Bow Island Municipal	20	8
Calgary General	81	
Cardston Municipal	14	8
Cold Lake, John Neil	12	8
Drayton Valley Municipal	20	8
Edmonton Royal Alexandra East Wing	12	
Grande Prairie Municipal	32	
MacLeod Municipal	18	11
Total	209	43

Utilization of Hospital Beds in Alberta

It has been assumed in some quarters that when a dominion-provincial hospitalization plan becomes operative, it will be inevitable that there will be a greatly increased demand for hospital services and beds. In spite of steadily increasing hospitalization insurance of various kinds in Alberta over the past eleven years, the amount of hospitalization per capita in Alberta has remained remarkably steady, the total days of care given per 1,000 population in 1947 being 1,710 days as compared to 1,714 days in 1957—reference Table 16. With only 21% of resident patients hospitalized during 1957 not qualified for hospitalization benefits including persons insured through Blue Cross, other insurance companies and through employers, it is not anticipated that the incidence of hospitalization will increase unduly immediately a new plan offering wider coverage comes into effect.

The hospitalization plans are intended to provide insured services to active treatment cases only. A reporting and checking procedure is in effect whereby grants are discontinued on all cases deemed by the Department to be no longer in need of active treatment care. None the less, there are some long term cases in general hospitals which could be more adequately cared for in convalescent or rehabilitation hospitals or adequately and more economically cared for in nursing homes if such accommodation was available. Table 20 indicates the distribution of cases and patient days by age and length of stay in hospital.

9. MOVEMENT OF PATIENTS

Volume of Hospital Care

There were 233,418 adult and children patients hospitalized in the approved hospitals of the province during 1957, including D.V.A. Division of the University Hospital, of whom 40.6% were male patients and 59.4% were female patients. These patients spent 1,988,897 days in hospital. Compared with the previous year, there were more patients under care (5.4%) and more hospital days (3.6%) whereas the population increased 3.3%.

The number of births in the approved hospitals of the province amounted to 34,372 in 1957, an increase of 787 births over 1956. Newborns under care in approved hospitals amounted to 34,965 in 1957, totalling 260,958 days. It is noteworthy that 96.4% of births took place in approved hospitals. Stillbirths in approved hospitals remain approximately the same in number, 389 for 1956 compared to 386 in 1957. For live births July has been the high month and February the low month for the last four years 1954 to 1957. Data on hospital days and cases under care are given in table 15.

In 1957 the average length of stay for adults and children has dropped for the first time since 1953, to 8.7 days. For newborns, the average length of stay continued its decline from 9.7 days in 1947 to 7.6 days in 1957. Incidence of hospitalization per 1,000 population for the years 1947 to 1957 are given in Table 16. Of every 1,000 population, 197 were admitted to an approved hospital in 1957, a fairly static stituation for the past 5 years.

Monthly Movement of Patients

Tables 17 and 18 as well as Diagrams IV and V show the monthly movement of patients and the related hospital days in 1957. A study of these tables and diagrams reveals a strong fluctuation in the monthly movement of patients and their related hospital days.

In 1957 the pattern of monthly admissions of adults and children patients differed from the pattern of monthly admissions for the previous three years. Whereas for the three previous years March had been the high month for adults and children admissions and September the low month, in 1957 October was the high month and February the low month. However, more hospital days were claimed for March than any other month. This is true for most hospital groups, the exceptions being group D hospitals and the four outpost E hospitals.

An increase in adults and children deaths was recorded in 1957 as compared to 1956. Total deaths in approved hospitals amounted to 3,684 which is 172 deaths more than in 1956, or an increase of 4.9%. The percentage of all provincial deaths occuring in approved hospitals was 44.8 including newborns, 39.6 excluding newborns.

Cases and Days by Length of Stay

Of the 226,747 patients discharged or deceased in 1957, slightly more than four-fifths (80.6%) spent 10 days or less in the provincial approved hospitals, but they only required 45.2% of the total patient days. Patients who stayed in approved hospitals 3 days or less comprised 30.9% of the cases and absorbed 7.4% of the days.

As is shown in Table 19 and Diagram VI, the greater part of the patients (96.9%) were discharged or died within one month of their admission to hospital. Long stay cases, patients who were hospitalized for more than 30 days, amounted to 3.1% but required 23.7% of the days. Patients who stayed 91 or more days in hospital, although they make up less than one-half of one per cent of the total discharged or deceased cases, absorbed 9.0% of the days.

Cases and Days by Age Group and Sex

Tables 20 and 21 show the distribution of cases and days of discharged patients and their related average length of stay by age group and sex. Diagram VII represents the same facts in graphic form.

More than one-third (35.6%) of the cases were between the ages of 20 and 39 and they utilized 29.2% of the bed capacity of the provincial approved hospitals. This was mainly due to the childbearing females, most of whom fall in that age group, and 96.4% of them went to approved hospitals for care in 1957.

Comparing the utilization of hospital services by age group in 1957 to that of 1956 and that of 1951 when figures were first compiled, we note that from 1951 (excluding polio patients) to

1956 there had been a continuous decrease in the proportion of patients of the younger age group and that in 1957, there occurred a slight increase in their number. For older age group patients, the reverse is true.

Table 22 indicates the number of discharged patients and their average length of stay by age group over the past seven years, 1951-1957.

Cases and Days by Hospitalization Benefits

About three-quarters (74.3%) of the total patients hospitalized in Alberta approved hospitals in 1957 received hospitalization benefits under one type of provincial program or another. More than one-half (52.1%) of the total patients received benefits under the Provincial-Municipal Hospitalization Plan. Nonresidents, boarders and recipients of Veterans' Allowance, together with Indians hospitalized in general approved hospitals, make up 4.7% of the total patients. The balance (21.0%) consists of residents not qualified for benefits under any government sponsored plan (see table 24).

An examination of Table 25 and Diagram VIII reveals the pattern of average length of stay for the various types of patients. A pronounced trend is noted in the length of stay of maternity patients which has declined steadily from 8.4 days in 1951 to 7.3 days in 1957.

In considering the days of stay of patients by the hospitalization benefits received (see table 23), we note that 41.7% of the patients who were either responsible for their own accounts or were insured by private companies were discharged within 3 days of their admission to hospital in 1957, a percentage slightly higher than in 1956. Some 37.1% of the patients who received complete hospitalization services under the Provincial-Municipal Hospitalization Plan were discharged within the same period of time in 1957. This percentage is slightly lower than in 1956. The percentage of patients discharged as the stay becomes longer tends to even off for both groups. Approximately 97.0% of both groups were discharged within one month of admission to hospital.

Almost all (99.8%) of the maternity cases were discharged within 20 days of their admission to hospital; 94.0% spent from 4 to 10 days only.

10. STANDARD OF SERVICES RENDERED WITHIN HOSPITALS

Wtihin the terms of Hospital Regulations set by the Department, the level of services within individual hospitals has been established according to the wishes of the community it served, the policy of the owners of the hospital and the ability of the hospital to obtain the funds necessary to provide services. Apart from the expected difference in the type of service rendered in the large hospitals with highly specialized departments and the small hospitals, there is a difference in the level of services in hospitals of comparable size.

For the first time a very substantial amount of the federal laboratory and x-ray equipment grant was utilized in supplying equipment to hospitals. In many cases, hospitals received items of equipment they had not previously possessed resulting in an increase in services rendered, whereas many other hospitals improved the facilities they already had.

11. CONSULTING SERVICES

Consulting services involving the operation of a hospital may be instituted to the extent and at such time as it is considered necessary.

Two Inspectors of Hospital Administration were employed by the Division to assist hospitals in administrative matters. A Supervisor of Municipal Hospitals Organizations assists in organizing new districts, and particularly assists members of hospital boards with respect to The Municipal Hospitals Act. The Director of the Division of Medical Services is the medical consultant to the Hospitals Division. The services of two technicians from the X-Ray and Laboratory School have been utilized on a part time basis to visit hospitals as necessary. A departmental dietitian has been available on occasion but her services have not been integrated into the hospital field. In conjunction with the Associated Hospitals of Alberta, consideration is being given to extension of consulting service.

12. SUPERVISION OF ADMINISTRATION OF HOSPITALS

The Hospitals Division maintains a close supervision of administration of hospitals. The Municipal Hospitals Act governs the election of hospital boards of municipal hospitals and the Department establishes the number of members comprising each board. The appointment of secretary-treasurers and auditors must be approved by the department. Hospital accounting schools have been held in the past to instruct secretary-treasurers and accountants in uniform hospital accounting. Through various returns required, minutes of board meetings, information bulletins, comparative cost table and other communications hospitals are given considerable supervision. Two Inspectors of Hospital Administration have been appointed to advise and supervise hospital staff, particularly in the smaller hospitals. Much of the Division staff's time is spent in this area. The executives of the Associated Hospitals of Alberta work closely with the Division in advising association members. The hospitals have been very receptive, co-operative and appreciative.

13. HOSPITAL REGULATIONS

The Hospital Regulations under The Hospitals Act including Fire Prevention Regulations under The Fire Prevention Act will remain in effect after The Hospitalization Benefits Act has been proclaimed until such times as they are rewritten in sections under the new act.

Some work has been done on the institution of uniform hospital by-laws in small hospitals.

14. PRIVATE HOSPITALS

The Private Hospitals Act provides for the licensing and inspection of private hospitals in the province including control of structural alterations or additions, of type of services and operations rendered therein and the nature of records to be kept.

There were 10 private hospitals licensed in the province in 1957 with a total capacity of 184 beds. The license fee is \$5.00. Two of these hospitals have been approved by the department to qualify for payments under The Maternity Hospitalization Act.

15. LONG TERM ACTIVE TREATMENT HOSPITALIZATION AND NURSING HOME CARE

The term "chronic" used in relation to hospitals is not definitive in that, although it indicates services for long-term patients, it does not indicate whether or not active treatment services are available. This is a matter of increasing significance since the federal government has announced its intention to share with provinces the cost of an active treatment hospitalization program.

There were 10 hospitals classified as "chronic" hospitals in the province in 1957 having a total capacity of 699 beds. Some of these beds are in hospitals providing long-term active treatment care to patients who are benefiting therefrom or whose prognosis is such that they may benefit from active treatment services. On the other hand a number of these beds are utilized by patients not being rendered active treatment care. Consideration is being given to establishing a clearer delineation as to the type of services rendered in these institutions.

To date "chronic" hospitals have not been paid any operating grants under any of the provincial plans operated by this department whether the service provided is active treatment convalescent or rehabilitation care, nursing care, or of a domicilary type of care. Municipalities and the Associated Hospitals of Alberta have submitted resolutions to include services rendered in the "chronic" hospitals as insured services under the provincial plan, and consideration is being given to this end.

DIAGRAM No. I

PROVINCIAL GRANTS & PAYMENTS FOR HOSPITALIZATION IN GENERAL HOSPITALS, 1951 - 1957

(PAYMENTS TO MENTAL HOSPITALS AND T.B. SANATORIA, AND PAYMENTS BY THE CANCER DIVISION ARE EXCLUDED).

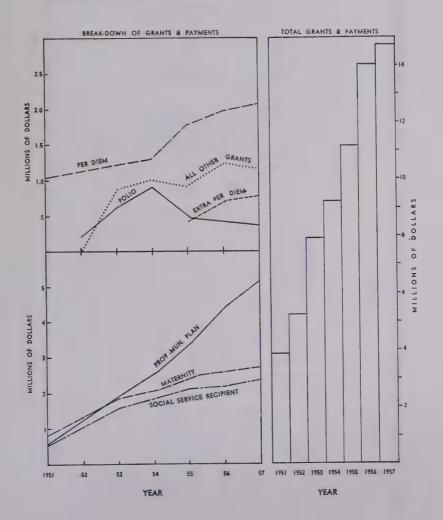


DIAGRAM No. 11

DISTRIBUTION OF OPERATING EXPENDITURES BY MAJOR TYPE OF EXPENDITURE 1956 - 1957

(EXCLUDING DEPRECIATION AND CAPITAL INTEREST).

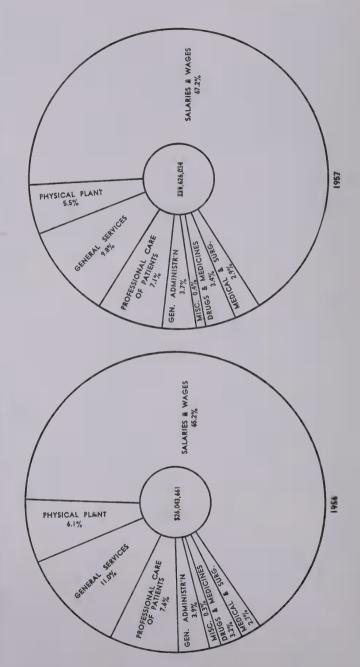


DIAGRAM No. III

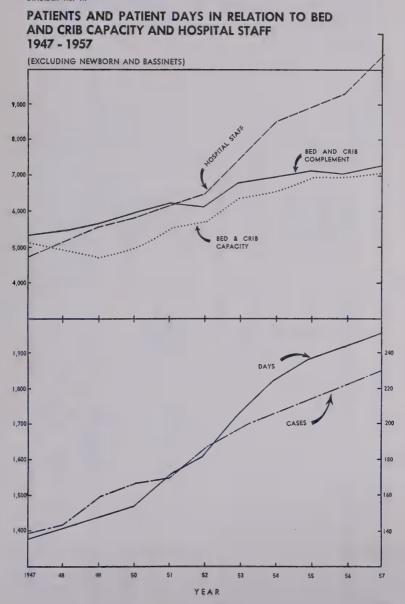
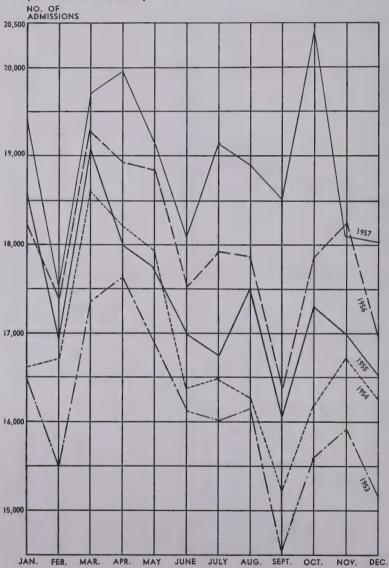


DIAGRAM No. IV

MONTHLY ADMISSIONS OF ADULTS & CHILDREN 1953 - 1957

(EXCLUDING NEWBORN)



MONTHLY LIVE BIRTHS 1953 - 1957

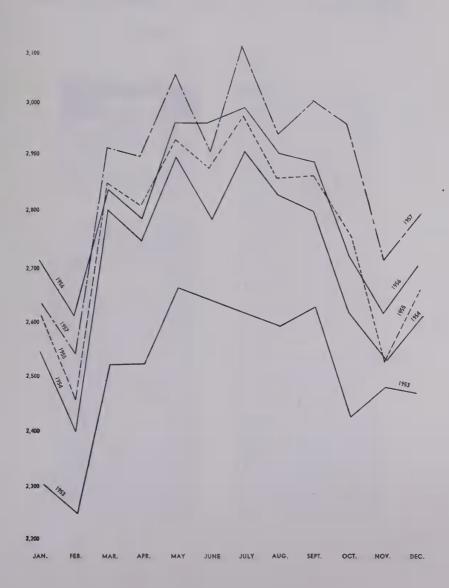
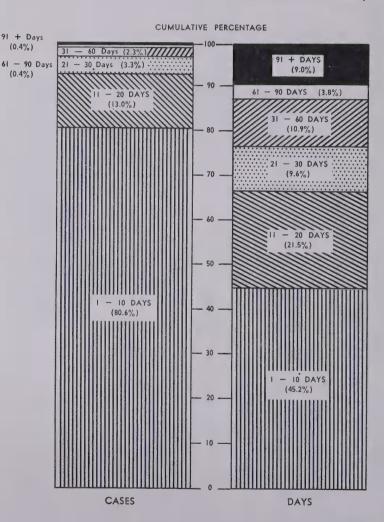


DIAGRAM No. VI

DISTRIBUTION OF CASES AND PATIENT DAYS BY LENGTH OF STAY 1957

(EXCLUDING NEWBORN, AND D.Y.A. DIVISION, UNIVERSITY HOSPITAL).



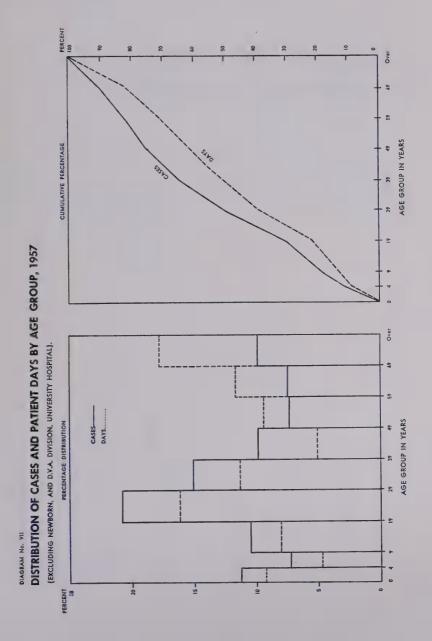


DIAGRAM No. VIII

AVERAGE LENGTH OF STAY IN HOSPITAL BY TYPE OF BENEFIT, 1957

(EXCLUDING NEWBORN, AND D.V.A. DIVISION, UNIVERSITY HOSPITAL).

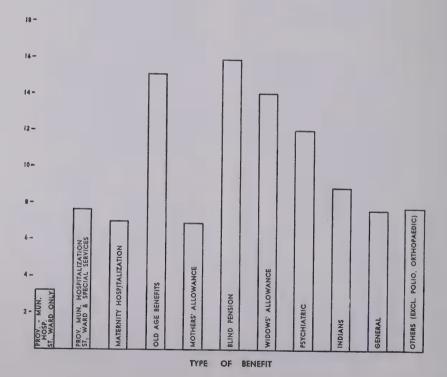


TABLE 9
FINANCIAL OPERATIONS OF APPROVED HOSPITALS, 1951-1957

	1951	1952	1953	1954	1955*	1956	1957	% Increase over 1956
Total Revenue for operating purposes (\$1,000's) Total Expenditures (\$1,000's):	14,677	17,340	21,472	24,029	25,024	26,446	28,523	7.8
Excluding Depreciation and Capital Interest					24,005	26,044	29,626	13.7
Including Depreciation and Capital Interest	15,061	17,188	20,947	24,016	26,071	28,685	32,261	12.4
Total Cost of Salaries and Wages Revenue per patient day† Expenditure per patient day†	,7,486 9.04	9,032 10.29	11,432 11.84	13,779 12.57	14,986 12.69	16,986 13.18	19,907 13.74	17.2 4.2
Excluding Depreciation and Capital Interest					12.17	12.98	14.27	9.9
Including Depreciation and Capital Interest	9.27 	10.20	11.55	12.56	13.22	14.30	15.54	8.6

^{* 1955} represents the first year that standardized accounting procedures were effective through most of the approved hospitals in the province, hence, while comparisons may be made with previous years, they can only be approximate since the figures shown under previous years would likely be different if these new procedures existed previously.

[†] Adult and Children plus 1/3 newborn.

TABLE 10 -- GRANTS AND PAYMENTS TO ADDROVED INCEDIMALS 1057

		Total Payment	51,561.40 23,205.70 81,328.15 18,197.30	13,482.70 13,374.25 47,999.65 11,889.80	50,631.50 69,987.00 889,243.50 460,497.50	38,499.50 121,522.05 14,731.90 32,926.35 7,777.55	9,042,00 34,849.30 22,000.90 15,290.50	18,621.90 23,076.20 1,682.70 5,348.80 32,117,15
	PENSION BENEFITS	JunomA	20,542.80 4,343.50 42,879.95 3,629.70	2,540. 2,540. 21,457. 5,516.	410	39,744.05 7,547.90 9,826.15 3,160.65	4,952.40 7,023.70 7,479.60 4,014.00 5.063.55	4,794.60 6,672.20 296.30 412.60 8,974.85
	PEI	Days	2,310 5,095 432 691	2,538 2,538 660	1,382	4,305 997 1,170 388 989	285 866 949 610	559 776 34 48 1,055
1957		LatoT tanomA	13,331.10 7,244.70 13,458.70 4,915.10 6,917.10		16,378.00 375,511.00 202,371.25	38,253.00 3,128.50 11,036.20 748.90 6.801.10	12,262.60 5.858.80 5,623.00 4,892.50	5,145,30 4,904,00 997.60 1,654.20 9,427.80
PITALS-	BENEFITS	ìnuomA	3,948.00 2,121.00 3,948.00 969.00	945.00 1,275.00 3,171.00 612.00	4,872.00 151,848.00 76,580.00	10,850.00 731.00 3,162.00 187.00	408.00 3,612.00 1,479.00 1,326.00	1,156.00 1,105.00 187.00 391.00 2,709.00
ED HOS	MATERNITY BI	Cases Discharged	188 101 188 57 57	45 75 151 36 137	232 4,339 2,188	434 434 111 111 88	24 172 87 102 67	68 65 11 129
APPROVI	MATE	1mom A	9.383.10 5,123.70 9,510.70 3,946.10 4,979.10	2,522.10 3,916.50 6,462.20 1,777.30 7,359.60	11,506.00 223,663.00 125,791.25	27,403.00 2,397.50 7,874.20 561.90 4,953.10	1,019.60 8,650.60 4,379.80 4,297.00 3,753.50	3,989.30 3,739.00 610.60 1,263.20 6,718.80
NTS TO		Days	1,377 1,389 1,389 587 737	360 575 954 1,092	1,690 25,604 14,405	3,710 355 1,154 83	1,292 1,292 656 656 555	591 560 92 184 976
PAYME	EXTRA PER DIEM GRANT	1mom A	5,318.50 2,452.50 7,966.50 3,004.50 2,458.00	1,653.50 1,728.00 5,158.00 1,074.50 4,114.50	6,949.00 83,257.50 42,964.00	13,080.00 840.50 3,910.00 1,206.00 3,516.00	828.00 4,546.00 2,714.50 1,604.50 1,887.00	2,830,00 3,605,00 100,00 854,00 4,310,50
TS AND	EXTRA DIEM	Days	10,637 4,905 15,933 6,009 4,916	3,307 3,456 10,316 2,149 8,229	13,898 166,515 85,928 6,446	26,160 1,681 7,820 2,412 7,032	1,656 9,092 5,429 3,209	5,660 7,210 200 1,708 8,621
ABLE 10 — GRANTS AND PAYMENTS TO APPROVED HOSPITALS—1957	GRANT	JnuomA	12,369.00 9,165.00 17,023.00 6,648.00 5,291.00	3,498.00 3,914.00 11,751.00 2,910.00 9,324.00	15,227.00 27,733.00 216,015.00 115,021.00 6,533.00	30,445.00 3,215.00 8,154.00 2,662.00 8,167.00	1,834.00 11,017.00 5,948.00 4,049.00 3,976.00	5,852.00 7,895.00 488.80 2,428.00 9,404.00
ABLE	PER	Grant Days	12,369 9,165 17,023 6,648 5,291	3,498 3,914 11,751 2,910 9,324	15,227 27,733 216,015 115,021 6,533	30,445 3,215 8,154 2,662 8,167	1,834 11,017 5,948 4,049 3,976	2,852 489 2,428 9,404
		APPROVED HOSPITALS	Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Joseph's Bassano, Municipal Beaverlodge, Municipal	Bentley, Municipal Blairmore, Municipal Blairmore, Crows Nest Pass Municipal Bonnyville, Katherine H. Prittie Bonnyville, St. Louis	Brooks, Municipal Calgary, Alberta Red Cross Calgary, General Calgary, Holy Cross Calgary, Salvation Army Grace	Camrose, St. Mary's Canmore, Camrore Cardston, Municipal Carnagay, Little Bow Municipal Castor, Our Lady of the Rosary	Cereal, Municipal Claresholm, Municipal Coaldale, Community Cold Lake, John Neil Consort, Municipal	Coronation, Municipal Daysland, Providence Desmarals, St. Martin's Devon, Cylic Didsbury, Municipal

84,515.75 24,348.60 14,947.10 553,507.75 517,725.25	027,457.00 635,374.90 42,932.30 57,588.20 14,059.75	11,148.65 41,321.85 23,565.60 10,461.00 2,047.35	13,593.50 24,151.15 16,799.10 99,456.80 6,085.45	52,900.55 23,557.20 51,899.55 52,509.85 37,599.65	10,890.30 17,692.95 31,423.30 65,100.50 61,658.80	99,336.85 211,460.25 174,755.55 56,705.55 70,991.35	20,111,45 23,528.75 19,200.20 30,386.45 166,842.65
30,510.75 10,329.60 171,335.75 158,724.25	245,623.75 1, 208,038.25 9,730.70 25,639.10 5,930.05	2,030.15 12,296.45 6,833.30 4,051.50 406.35	3,151.50 5,199.85 7,651.20 32,880.00 2,259.45	18,113.55 8,627.20 11,058.15 15,770.35 12,748.75	5.209.30 1,508.75 9,143.50 26,431.00 16,793.70	59,680.65 49,808.50 58,471.25 18,026.05 25,067.25	8,604.05 8,059.75 7,700.90 9,503.05 45,197.95
3,453 1,194 14,927 14,247	22,669 18,941 1,105 2,917 725	263 1,432 839 515 63	387 623 864 3,914 257	2,111 1,007 1,266 1,889 1,476	608 1,071 2,934 1,881	6,558 5,409 6,293 2,152 2,884	1,082 1,009 892 1,047 4,832
21,817.50 4,976.00 9,795.60 200,606.00 190,674.50	478,202,75 181,965,75 19,348,10 9,165,60 3,406,70	4,562.00 12,039,40 6,656.80 2,666.00 452.00	3,923,00 5,474,30 3,559,40 31,742,30 1,742,00	14.582.50 4,451.50 18.062.90 15,124.50 11,379.40	618.00 9.289.70 9.021.30 14.561.00 20,556.60	10,658.70 75,196.25 37,717.30 15,032.50 17,608.60	3,870.40 7,567.00 5,029.30 9,839.40 60,469.20
7,025.00 1,407.00 1,768.00 70,245.00 69,790.00	170,450.00 59,535.00 5,649.00 2,667.00 697.00	935.00 3,360.00 1,649.00 533.00 119.00	806.00 1,302.00 844.00 10,689.00 459.00	3,843.00 867.00 5,049.00 3,978.00 3,591.00	136.00 2,091.00 1,853.00 4,221.00 5,649.0	3,075.00 22,365.00 11,145.00 4,410.00 4,956.00	1,020.00 1,404.00 1,258.00 2,601.00 20,075.00
281 67 104 2,007 1,994	4,870 1,701 269 127 41	160 97 411	62 52 503 27	183 51 297 234 171	123 105 201 265	123 865 431 210 236	60 108 74 153 803
14,792.50 3,569.00 8,027.60 130,361.00 120,884.50	307,752,75 122,430,75 13,699,10 6,498.60 2,709.70	3,627.00 8,679.40 5,007.80 2,133.00	3,117.00 4,172.30 2,675.40 21,053.30 1,283.00	10,739.50 3,584.50 13,013.90 11,146.50 7,788.40	482.00 7,198.70 7,168.30 10,340.00 14,907.60	7,583.70 52,831.25 26,572.30 10,622.50 12,652.60	2,850.40 6,163.00 3,771.30 7,238.40 40,394.20
2,005 520 1,182 14,888 13,802	35,175 13,959 1,997 399	1,278 1,278 325 50	483 621 3,101 190	1,585 535 1,913 1,635 1,148	1,059 1,051 1,520 2,192	1,033 7,051 3,532 1,555 1,855	418 950 561 1,068 5,468
9,852.50 2,873.00 1,649.50 48,162.00 45,954.50	83,251.50 52,168.90 3,706.50 7,090.50 1,554.00	1,424.50 5,230.00 3,029.50 586.50 85.00	1,868.00 4,174.00 1,830.50 10,416.50 639.00	6,387.50 3,202.50 5,781.50 6,871.00 4,155.50	1,640.50 4,073.50 6,811.50 7,640.50	8,928.50 25,098.50 22,396.00 7,226.00 8,016.50	2,456.00 2,532.00 2,125.00 3,051.00 18,014.50
19,705 5,746 3,299 96,324 91,909	166,503 104,315 7,413 14,181 3,108	2,849 10,460 6,059 1,173	3,736 8,348 3,661 20,833 1,268	12,775 6,405 11,563 13,742 8,311	3,340 2,595 8,147 13,623 15,281	17,857 50,197 44,792 14,452 16,033	4,912 5,064 4,250 6,102 35,029
22,344.00 6,170.00 3,502.00 133,404.00 122,372.00	220,379.00 193,202.00 10,147.00 15,693.00 3,169.00	3,132.00 11,756.00 7,046.00 3,156.00 1,104.00	4,651.00 9,303.00 3,758.00 24,418.00 1,445.00	13,817.00 7,276.00 16,997.00 14,744.00 9,316.00	3,393.00 5,597.00 9,185.00 17,297.00 16,668.00	20,069.00 61,357.00 56,177.00 16,421.00 20,299.00	5,181.00 5,370.00 4,345.00 7,993.00 43,161.00
22,344 6,170 3,502 133,404 122,372	220,379 193,202 10,147 15,693 3,169	3,132 11,756 7,046 3,157 1,104	4,651 9,303 3,758 24,418 1,445	13,817 7,276 16,997 14,744 9,316	3,393 5,597 9,185 17,297 16,668	20,069 61,357 56,171 16,421 20,299	5,181 5,370 4,345 7,993 43,161
Drumheller, Municipal Eckville, Municipal Eckville, Municipal Edmonton, Beulah Home Edmonton, General Edmonton, Misericordia	Edmonton, Royal Alexandra Edmonton, University Edson, St. John's Elk Point, Municipal Elnora, Municipal	Empress, Municipal Fairview, Municipal Fort Maclood, Municipal Fort McMurray, St. Gabriel's Fort Smith, General	Fort Vermilion, St. Theresa Galahad, St. Joseph's Gelendon, Municipal Grande Prairie, Municipal Grande Prairie, Hythe Sub Municipal	Hanna, Municipal Hardisty, St. Anne's High Prainle, Providence High River, Municipal Innisfail, Municipal	Islay, Municipal Jasper, Seton Killam, General Lac La Biche, St. Catherine's Lacombe, Municipal	Lamont, Archer Memorial Lethbridge, Municipal Lichbridge, St. Michael's Lloydminster McLennan, Sacred Heart	Magrath, Municipal Manning, Municipal Mannyille, Municipal Mayerthorpe, Municipal Medicine Hat, Municipal

TARTE 10

		Total Payment	5,618.45 27,816.20 24,316.05 38,836.90 11,100.15	45,909.60 35,190.80 42,715.15 21,491.30 20,967.95	16,046.60 141,239.25 42,669.20 30,671.50 22,356.75	63,541.15 68,899.40 69,140.50 71,064.80 22,884,80	36,902.95 21,502.50 22,897.75 40,126.00 100,494.10	42,863.40 33,299.55 17,182.25 29,578.50 52,680.15
	PENSION BENEFITS	1momA	349.65 17,533.30 14,136.65 10,809.20 1,501.65	7,739.80 10,657.60 10,918.65 6,954.20 8,565.75	4,544.50 35,623.55 14,292.50 8,887.80 11,874.55	32,228.85 25,851.20 22,437.80 18,370.20 5,444.70	16,614.35 8,528.00 9,636.65 19,880.30 54,241.60	15,379.40 9,572.85 7,187.05 5,826.10 17,980.25
1)	PEN	Days	37 1,998 1,631 1,305	898 1,232 1,254 791 975	3,790 1,658 1,388	2,3868 2,736 2,230 592	1,907 1,209 2,218 5,802	1,833 1,146 829 655 2,092
(Continued)		IsjoT janomA	2,338.80 2,411.90 3,312.90 13,680.70 4,894.00	17,170.80 10,791.70 14,284.50 6,293.60 5,068.70	5,146.60 57,173.20 13,921.70 10,477.20 5,372.70	8,858.30 19,746.70 19,846.20 24,687.60 8,100.10	7,782.60 4,505.50 3,425.60 7,034.70	12,017.00 9,478.20 5,450.20 9,918.40 15,675.90
	BENEFITS	1momA	629.00 493.00 714.00 4,473.00 1,156.00	4,641.00 2,877.00 4,074.00 1,911.00 1,241.00	1,377.00 18,175.00 4,431.00 3,150.00 1,445.00	2,193.00 4,683.00 5,670.00 7,161.00 2,163.00	2,268.00 1,003.00 867.00 1,911.00 4,500.00	3,465.00 1,955.00 1,054.00 2,295.00 4,662.00
SPITAL	MATERNITY BE	Cases Discharged	229 422 213 688	222 137 194 91 73	81 727 211 150 85	129 223 270 341 103	108 51 91 180	105
APPROVED HOSPITALS—1957	MATE	JunomA	1,709.80 1,918.90 2,598.90 9,207.70 3,738.00	12,529.80 7,914.70 10,210.50 4,382.60 3,827.70	3,769.60 38,998.20 9,490.70 7,327.20 3,927.70	6,665.30 15,063.70 14,176.20 17,526.60 5,937.10	5,514.60 3,502.50 2,558.60 5,123.70 11,204.50	8,552.00 7,523.20 4,396.20 7,623.40 11,013.90
TO APPR		Days	256 273 383 1,359 550	1,846 1,159 1,495 652	552 5,268 1,389 1,074	2,199 2,094 2,572 867	812 515 382 759 1,505.	1,260 1,114 644 1,128 1,623
	EXTRA PER DIEM GRANT	JunomA	650.00 2,413.00 2,197.50 4,321.00 1,494.50	5,860.00 4,046.50 5,359.00 2,638.50 2,181.50	2,028.50 14,189.50 3,806.00 3,288.50 1,667.50	6,712.00 7,392.50 8,271.50 8,368.00 2,922.00	3,701.00 2,721.00 2,344.50 4,239.00 9,645.00	5,029.00 4,590.50 1,426.00 4,343.00 5,770.00
AND PAYMENTS	EXTR. DIEM	Days	1,300 4,823 4,395 8,642 2,989	11,720 8,093 10,718 5,277 4,363	4,057 28,379 7,612 6,577 3,335	13,424 14,785 16,543 16,736 5,844	7,402 5,442 5,889 8,478 19,290	10,058 9,181 2,852 8,686 11,540
GRANTS A	ER DIEM GRANT	3unomA	2,280.00 5,458.00 4,669.00 10,026.00 3,210.00	15,139.00 9,695.00 12,153.00 5,605.00 5,152.00	4,327.00 34,253.00 10,649.00 8,018.00 3,442.00	15,742.00 15,909.00 18,585.00 19,639.00 6,418.00	8,805.00 5,748.00 6,891.00 8,972.00 20,903.00	10,438,00 9,658,00 3,119,00 9,491,00 13,254,00
10 — (PER GR.	Grant	2,280 5,458 4,669 10,026 3,210	15,139 9,695 12,153 5,605 5,152	4,327 34,253 10,649 8,018 3,442	15,742 15,909 18,585 19,639 6,418	8,805 5,748 6,891 8,972 20,903	10,438 9,658 3,119 9,491 13,254
TABLE		APPROVED HOSPITALS	Mercoal Mundare, General Myrnam, Municipal Olds, Municipal	Peace River, Municipal Pincher Creek, St. Vincent's Ponoka, Municipal Provost, Municipal Radway, St. Joseph's	Raymond, Municipal Red Deer, Municipal Rimbey, Municipal Rocky Mountain House, Municipal Smoky Lake, Municipal	Spirit River, Holy Cross St. Paul, St. Theresa Stettler, Municipal Taber, Municipal Three Hills, Municipal	Tofted, Municipal Trochu, St. Mary's Turner Valley, Municipal Two Hills, Municipal Vegreville, St. Joseph's	Vermilon, Municipal Viking, Municipal Vilia, Our Lady's Vilican, Municipal Walnwright, Municipal

39,569,95 96,467.85 26,599.75. 76,149.05 17,343.55 30,060.35	254,266 2,453,089.05 8,097,050.25	3,690.00		254,266 2,453,089.05 8,102,481.75
4,564 3,047 2,005	254,266 2,			254,266 2,
21,980.40 23,602.30 4,497.80	,759,812.00	3,690.00	5,431.50	,765,243.50
5,628.00 7,182.00 935.00	917,354.00 2,759,812.00	345.00	345.00	917,699.00 2,765,243.50
268 342 55	32,264	69	69	32,333
16,352.40 16,420.30 3,562.80	234,569 1,842.458.00	3,345.00	5,086.50	235,625 1,847,544.50
2,418 2,411 516	234,569	669	1,056	235,625
10,960.50 7,823.00 2,593.00	806,028.40	3		806,028.40
21,921 15,646 5,186	1,611,024			1,611,024
23,957.00 18,124.00 5,626.00	2,078,121 2,078,120.80			2,078,121 2,078,120.80 1,611,024
23,957 18,124 5,626	2,078,121			2,078,121
Westlock. Immaculata Wetaskiwin, Community Willingdon, General	Total for Approved Hospitals	PRIVATE HOSPITALS: Sexsmith Swalwell	Total for Private Hospitals	TOTAL FOR ALL HOSPITALS

Included in Above: \$42,254.00 paid to the Calgary Alberta Red Cross Hospital on behalf of 17,605 Orthopaedic Days \$42,254.00 paid to the Calgary General Hospital on behalf of 5,034 Psychiatric Days \$5,112.00 paid to the University Hospital at Edmonton on behalf of 4,259 Psychiatric Days \$5,133.00 paid to the University Hospital at Edmonton on behalf of 4,259 Psychiatric Days	Outpost Grants As Follows: Cold Lake, John Neil 2480 days at \$1.80 and 954 days at \$1.30 5.704.20 Fort Welmilton, St. Theresa 3.136 days at \$1.80 and 1.039 days at \$1.30 4.761.40 Manning, Municipal 3.806 days at \$1.80 and 1.039 days at \$1.30 6.995.50 Hondrichal 2.806 days at \$1.80 and 542 days at \$1.30 7.559.00 Hondrichal 2.806 days at \$1.80 and 542 days at \$1.30 7.559.00 Hospitalization of Maternity cases in border hospitals outside the Province
algary Alberta Igary General I iiversity Hospit	Cold Lake, Joh Fort McMurray Fort Vermilion, Manning, Mun ases in border
Not Included in Above: 842,254.00 paid to the Ca 35,112.00 paid to the Ca 29,813.00 paid to the Un	Outpost Grants As Follows: Capture Hospitalization of Maternity c

\$133,436.65

TABLE 11—PROVINCIAL HOSPITALIZATION, PAYMENTS TO LOCAL AUTHORITIES— UNDER THE PROVINCIAL-MUNICIPAL PLAN—1957

		ADU	ADULTS 16 AND OVER	CHIL	CHILDREN UNDER 16	NEW	NEWBORN	SEF	SPECIAL	TC	TOTAL
LOCAL AUTHORITY	No. of Participating	Days	TNUOMA	Days	TNUOMA	Days	TNUOMA	Days	TNUOMA	sys	TNUOM
Alliance, Village	00 (133			416.64			281	100 200	[7 0
Arrowood Village	7	311	1,149.84	72	203.95			249	305.04	1000	1,209.93
Athabasca, M.H.D.	15	103	ĺ		156.18	-			175.68	154	692 01
Athabasca, M.D.	15	0,100	19,162.63	1,513	4,482.09	48	56.40			969.9	31.911.28
Banff, M.H.D.	12	3 137		130	1 107 10	20 0	21.60	270		288	1.181.40
Barrhead, M.H.D.	12	6,879	24 609 69	3000	2007 74	TS	27.60		4,311.18	3,536	17,069,46
	12	248		2,003	907.14	48	58.80			9,017	41,370.51
Bassano, M.H.D.	12	4 168		1 200	1 190 051	1		642	884.16	642	3,303,12
Bawlf, Village	12	176	670.08	1,00,1	100.00	504	64.80	5,525	5,884.20	5,579	25,291.38
Beaver, M.D.	15	000		C. H	120.22	-		219	279.72	219	1.078.02
Beaverlodge, M.H.D.	12	0000	7 307 59	0 2 2	OT JO	Ī		8	129.60	06	467.40
Bentley, M.H.D.	15	1000	0,000,000	400	961.32	-			2,478,36	2.378	10 837 91
Berwyn, M.H.D.	10	1,029	0,9(8.55	917.	2,126.01	2	8.40		2,741.76	2,352	10.854.79
Beverley, Town	12	2 121	14 400 44	803	Z,757.8I	16	19.20	2,681	3,204.90	2,697	13.069.35
Bittern Lake, Village	15	TOT '0	14,430.48	1,242	91.250,6	-02	84.00		7,835.04	4,443	27.451.68
Bonnyville, Town	12	701	20.92	2 + 5		: 6		00	11.52	00	40.44
Bonnyville, M.D.	15	0000 6	126.000.32	314	949.28	202	24.00	1,105	1,320.48	1.125	5.247.69
Bow Island, M.H.D.	15	9.536	10,741.42 0 101 0E	7,4(7	4,20T.95	41	49.20	4,471	5,288.22	4.512	20.546.79
Bowness, Town	12	9,640	19 940 49	1000	7,484. (8	:	:	3,324	4,561.56	3.324	16.528.29
Boyle, M.H.D.	15	1 560	8 000 000	1,031	09,020,0	99	79.20	4,040	7,188.48	4,106	25,131,90
Bretton, Village	9	701	339 46	17)	7,119.11		100	2,271	2,966.40	2,271	11,182.50
Brooks, M.H.D.	12	7 909	96 094 721		100 100	30 (10.80		117.36	62	460.62
Bruderheim, Village	12	25.5	073 901	1,000	0,360.40	112	134.40	8,995	10,495.44	9,114	42.079.97
Calgary City, with General	15	67 180	211 291 401	10000	77. JOH 02	100			416.16	288	1.496.67
Calgary City with Grace	15	777	146 69	100,21	106.181.00 11.30	146	895.20	79,541	143,173.80	80.307	505,582,35
	10	39 466	150.021	000	15.48	9	78.00		54.00	115	294 00
	10	2,400	17 770 50	067'0	25,443.90	445	534.00		69,757.20	39,201	246.301.55
	15	10,418	14,4(2.85	0000	3,118.32	103	123.60		6,908.64	4.361	24 623 42
	19	2 255	19,929,93	3,306	13,563.85	111	133.20	-	29,145,60	16,303	102.271.60
	151	5,000	9 570 05	846	2,519.60	-		4,192	4,705.56	4.201	19.297.64
Camrose, City	155	1 475	47 551 57	62.5	342.72			650	1,119.78	650	4.042.35
	19	1, 100	17,201.21	1000	2,185.89	88	39.60	5,123	7,467.66	5,156	26.934.42
Cardston, M.H.D.	12	4.650	16 604 95	1,23.	4,309.86	36	43.20	7,124	10,395.36	7,160	37,170,78
	-	logo's	TO,007:20	200	2,4(1.20	-		5,515	5,644.26	5.515	24.809.79

1,417 4,088.07 49 58.80 5.171 5.089.04 5.220 22.649.04 182 577.89 71 85.20 949 1,109.16 1,020 4,691.67	114 363.96 183 263.52 183	126 360,72 24 28.80 355 243.18 379	468 1,431.18 54 64.80 2,689 2,903.58 2,743	822 2,404.95 4,430 4,460.40 4,430	19.86	925 27.729.16 7.9 94.80 6,978 8,262.18 7,136	C11/2 C1/403/20 C1 C1/40	280 280 1,000	1 000 t 1,000	117 A71 75 8 9 9 958 958 958 958 958	1 8897 6 900 73 976 30 000 13 658 90 174 99 13 689	1.048 3.057.24 32 38.40 4.256 4.4.307.04 4.258	7,456 30 163 38 199 238 80 36 054 64 887 00 36 274	6.742 27.348.58 197 236.40 34.193 61.529.40 34.410	11,976 48,499.20 776 931.20 51,941 93,493.80 52,517	5,083 20,572.65 469 561.60 43,735 78,722.70 44,214	351 1,202.41 24 27.30 2,501 3,645.02 2,529	245 749.67 1,756 2,559.42 1,756	2,704 7,897.53 18 21.60 7,261 8,326.08 7,279	194 559.20 1,404 1,433.34 1,404	302 863.76 1,542 1,387.80 1,542	229 121.35 1 1.20 168 302.40 169	17.1 307.80 17.1 17.1 17.00 0 02.40 00 02.40 00 00 02.40 00 00 02.40 00 00 02.40 00 02.40 00 00 02.40 00 02.40 00 00 02.40 00 00 02.40 00 00 02.40 00 00 02.40 00.40 00.	100,0 U8.040,0 1184,1 U8.16 GP 11.010,1 1001,	3 707 10 981 50 36 43 50 19 369 13 639 84 19 405	308 1.206.33 23 27.60 1.058 1.841.40 1.081	433 1,270.08 1,201 1,113.48 1,201	666 2,742.90 60 72.00 2,845 5,105.16 2,905	7 23.82 92 150.84 179	87 261.06 294 389.16 294	497 1,430.28 2,552 2,510.37 2,554	20.4 22 20.4 21 20.40 10 20.00 01 12 20.40 10 20 00 01 10 10 10 10 10 10 10 10 10 10 10	5,868 11,010.24 31 37.70 12,450 15,383.88 12,479	1 606 4 739 40 433 51 60 8 445 9 8 848 8 488	1,000 1,100	2770 886.35 1.092.60 935	1.835 5.629.26 66 79.20 10,362 12,816.36 10,431	60 196.44 34 40.80 409 549.54 443	126 414.36 953 1,262.78 953	386 1,116,42	1,232 3,(17.36 7) (7) (5.60 5,708 6,812.46 5,785
3,754 13,403.13 767 2,919.42															_			_		_															_					_	_
122	12	121	12	122	77	77	7 5	122	77	15	101	125	13	12	12	12	12	12	12	12	12	125	75	77	35	121	12	12	12	12	72	× 0 0	777	155	15	16	12	12	12	12	77
Castor, M.H.D. Cereal, M.H.D.	Chipman, Village	Cold Lake. Town	Consort, M.H.D.	Coronation, M.H.D.	Cowley, Village	Crow's Nest Pass, M.H.D.	Daysland, M. H. D.	Delburne, M.H.D.	Devon, Iown	Didspury, M.H.D.	Dray toll Valley	Eckville M H D	Edmonton City with Caparal	Edmonton City with Misericordia	Edmonton City with Royal Alexandra	Edmonton City with University	Edmonton City with Emergency and Referred	Edson, Town	Elk Point, M.H.D.	Elnora, M.H.D.	Empress, M.H.D.	Entwistle, Village	Evansburg, Village	Fairview, M.E.D.		Fort Saskatchewan, Town	Forestburg, Village	Forest Lawn, Town	Forty Mile, M.D.	Galahad, Village	Glendon, M.H.D.	Grand Centre, Village	Grande Prairie, M.H.D.	Giantun, 10wn	Hatt Takes Village	High Prairie Town	High River, M.H.D.	Hinton, Town	Holden, M.H.D.	en	Innisfail, M.H.D.

TABLE 11—PROVINCIAL HOSPITALIZATION, PAYMENTS TO LOCAL AUTHORITIES— UNDER THE PROVINCIAL - MUNICIPAL PLAN, 1957 (Continued)

		ADU	ADULTS 16 AND OVER	CHI	CHILDREN UNDER 16	NEW	NEWBORN	SPE	SPECIAL	TO	TOTAL
	No. of Participatin Months	sysG.	JunomA	Days	JunomA	Days	JanomA	Days	JunomA	Syso	Junoma
Lina, M.H.D.	22	1,020	3,727.89	139	385.62	0	100	1,159	1,234.26	1,159	5,347.77
Jasper, M.H.D.	9	310		100	387.03	TO	77.00	3,605	3,562.47	3,623	15,535.56
Killam, Village	122	7,536		3,726	14,931.57	206	333.60	11,262	20,213.46	11,468	2,187.93
Kitsocty, Village	12	121		13	37.74	!	-	761	899.64	192	3,562.83
Lac La Biche, Town	12	117	421.35	42	113.76	: :	1 1	159	165.60	134	638.85
Lacombe, M.H.D.	125	8 696		482	1,207.98	17		1,221	1,410.48	1,221	5.194.38
Lac Ste. Anne, M.D.	12	2,454	10.936.50	911	3 419 16	41	49.20	10,866	12,918.96	10,907	51,114.81
Lamont, Village		12	59.40					3,303	97.7.29,6	3,365	19,982.82
Lamont, M.D.	127	7 730	3,023.19	248	843.69			1,034	1,524.60	1.034	5.391.48
Leduc, M.D. (with Edmonton Hospitals)	125	7.78	25,535.00	2,232	7,139.94	18	27.60	9,962	13,540.50	9,980	50,297.10
Town	77	985	3,432.42	379	1,106,91	9	7.20	1 364	11,779.20	909,9	41,506.35
Legal, Village	122	893	3,956.37	292	1,081.02	-	1.20	1,185	1.992.04	1 185	7,070.77
Lethbridge, M.H.D. with Coaldale	100	505	1,454.94	166	531.03	-		518	753.12	518	2,739,09
Lethbridge, M.H.D. with Municipal	121	24,393	94,639,38	5.764	18.801.09	218	21.60	3,211	2,889.90	3,229	13,587.48
Lethbridge, M. H. D. Emergency, and Defensed	12	23,795	92,075.91	5,977	19,570.77	102	126.00	29,133	44,244.36	30,428	158,010.03
Little Bow, M.H.D.	172	2,602	11,178.29	747	2,928.84			3.329	5.684 22	3 340	155,447.88
Lloydminster, M.H.D.	15	1,745	6,112.23	334	1,003.20			2,079	1.999.80	2,010	4 115 93
Lodgepole, New Town	12	0,029	021,411,80	2,436	7,736.19	601	129.60	11,050	13,415.94	11,174	52.699.53
Lougheed, Village	12	291	1.092.18	07	956 00	:		35	63.00	35	213.45
Mod od With	12	950	3,464.37	298	1 069 51			380	402.84	380	1,751.04
Magnath M L D	12	3,780	13,622.01	1.014	2.985.00	2	10.00	1,317	1,526.76	1,332	6,071.64
	122	2,349	8,298.84	782	2,229.15		:	2, 131	2).027.72	4,796	21,629.73
Manning, M.H.D.	7	92	274.68	*****	******			76	82 08	3,131	13,497.63
Mannville, M.H.D.	127	2,505	8,738.67	605	1,768.32	16	19.20	2.942	2.489.04	3 196	12 015 99
Mayerthorpe, M.H.D.	12	2,661	10.307.601	300	883.89		-	2,255	2,363.58		10.399.44
Medicine Hat, M.H.D.	171	18,031	69.857.31	3 310	2,119.14	14	16.80	3,400	4,372.02	3,414	16,715.64
Mercoal, M.H.D	27.	63	254.16	20	75.00	10	12.00	21,350	31,087.80		112,069.86
Millet, Village	100	329	1,360.62	160	581.97			489	562.50	480	9 505 00
	77	lar	log.Tea	331	101.13	16	19.20	200	249.48	216	1,001.61

709.88 5.48.46 1.010.55 5.08.46 1.010.55 1.010.5
2, 28, 28, 28, 28, 28, 28, 28, 28, 28, 2
1,578,988 1,578,988 1,578,60 1,587,128 1,597,128 1,597,128 1,597,138 1,597,1
2,034 864 1,1245
14.40 11.40 2.40 31.20 31.20 31.20 38.80 3.60 46.80 9.60
28 28 28 28 28 28 28 28 28 28 28 28 28 2
74.70 74.90.32 74.94.92 74.94.92 76.50 67.50 687.68 987.68 987.68 987.69 1.083.30 1.179.75 1.1
25.00.00.00.00.00.00.00.00.00.00.00.00.00
465.23 2.114.32 2.114.32 4.63.13 1.524.33 11.524.33 11.524.33 11.524.33 11.524.33 11.524.33 11.524.33 11.524.33 11.524.33 11.534.60 11.63.31
1,224 1,224
Mile Village Minburn M.D. Mortwill Town M.D. Municipal Affairs S.A. 2 and 3 Municipal Affairs I.D. 11, 11, 21, 22 Municipal Affairs I.D. 58 and 77 Municipal Affairs I.D. 78 and 95 Municipal Affairs I.D. 107 and 108 Municipal Affairs I.D. 125 and 126 Municipal Affairs I.D. 128 and 146 Municipal Affairs I.D. 138 and 146 Municipal Affairs I.D. 138 and 146 Municipal Affairs I.D. 147 Municipal Affairs I.D. 147 Municipal Affairs I.D. 148 Municipal Affairs I.D. 147 Municipal Affairs I.D. 147 Municipal Affairs I.D. 148 Municipal Affairs I.D. 148 Municipal Affairs I.D. 148 Municipal Affairs I.D. 147 Municipal Affairs I.D. 148 Multipal Affairs I.D. 148

TABLE 11 — PROVINCIAL HOSPITALIZATION, PAYMENTS TO LOCAL AUTHORITIES. UNDER THE PROVINCIAL - MUNICIPAL PLAN. 1957 (Continued)

zhinoM 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	A. Marian	6.28.88 6.28.88 11.835.98 6.281.13 6.281.138 6.281.138 9.46.88 374.86 374.86	evad 8 4 8 8	33.5.60 14.00mA 3.5.60 1.00mA 4.00 1.00mA 5.00mB 5.	Days 10,930 6,158 10,330 6,931 1,050 1,050 1,050 1,050	12.533.04 1.233.04 1.233.04 1.243.33 1.243.04 1.243.09 1.243.09 1.243.09 1.0,669.20	Pays 1,01990 1,01990 1,050 1,0	2,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5
12 873 144 12 664 12 664 12 6674 12 673 673 12 673		2.280.81 6.538.38 6.538.38 11.835.98 6.952.35 6.261.75 9.6261.75 9.6261.75 9.718.75 9.718.75 9.74.80	8442 8 8	33.60 169.20 146.40 34.80	1,439 10,990 717 6,158 10,330 6,931 1,050 4,97	2,557.80 12,533.04 12,533.04 11,031.84 12,217.32 12,475.80 1,512.00 504.90		8,892.15 50,147.43 47,287.85 44,582.25 43,592.25 2,314.68 35,099.10 5,262.54 83,099.10
12 8,744		6,538.38 214.35 5,054.4.95 11,835.98 6,595.35 6,261.75 967.86 5,718.75 946.80	122 122 123 123 123 124 125 125 125 125 125 125 125 125 125 125	3.60 33.60 169.20 146.40 34.80	10,990 1717 6,158 10,330 6,931 1,050 1,050 7,597	12,530,80 1,290,60 11,290,60 11,217,32 12,217,32 12,217,32 12,217,32 12,217,32 12,217,32 12,217,30 1,512,00 504,90 10,669,20		8,892.15 50,147.43 4,585.35 47.778.63 43,592.25 5,362.80 2,314.68 35,099.10
12 4.664		214.35 5.054.40 11.835.98 6.952.35 1.275.38 6.261.75 967.86 5.718.75 974.82 946.80	28 141 122 29 29 65	33.60 169.20 146.40 34.80	6,158 10,330 6,931 1,050 1,050 1,050	12,232,04 11,280,60 11,031,84 12,475,80 1,512,00 504,90 10,069,20		20,147,43 4,585,35 38,778,63 47,287,85 5,362,80 5,362,80 35,099,10 35,099,10
1		1,835,98 6,952,38 1,275,18 481,98 6,261,75 967,86 5,718,75 374,82	28 141 122 28 85 85	33.60	6,158 10,330 6,931 1,050 1,050	11,031.84 12,217.32 12,475.80 1,512.00 504.90 10,069.20		4,585.35 44,287.86 43,592.25 5,362.80 5,099.10 35,099.10
Action A		11,835.98 6,552.35 1,272.35 481.98 6,261.75 967.86 3,748.23 946.80	141 122 123 88 88 88	146.40	10,330 6,931 1,050 497	12,217.32 12,475.80 1,512.00 10,069.20		28, 18, 68, 63, 47, 287, 85 43, 592, 25 5, 362, 80 2, 314, 68 35, 099, 10 5, 262, 54
12 0.178 1.2 0.178 1.2 0.178 1.2 0.188 1.2 0.181 1.3 0.181 0.181 1.3 0.181 1.3 0.181 1.3 0.181 1.3 0.181 0		6,952.35 1,275.18 4,261.75 6,261.75 967.86 5,718.75 374.82 946.80	122	34.80	6,931 1,050 497 5,594	12,475.80 1,512.00 504.90 10,069.20		43,592.25 5,362.80 2,314.68 35,099.10 5,262.54
D. D. 12 3843 12 8433 14 641 15 8433 16 18 18 18 18 18 18 18 18 18 18 18 18 18	ਜੰ ਜੰ	1,275.18 481.98 6,261.75 718.75 374.85 946.80	8 8	34.80	1,050 497	1,512.00 504.90 10,069.20		5,362.80 5,362.80 2,314.68 35,099.10 5,262.54
D. 12 4,041 D. 12 8,72 12 8,433 11 12 134 12 134 12 2,739 12 2,739 12 2,460 12 2,460 12 3,408 12 3,408 12 3,408	ਜੋ ਜੋ	6, 261, 75 6, 261, 75 7, 718, 75 3, 718, 75 946, 80	8 8	34.80	5.594	504.90		2,314.68 35,099.10 5,262.54
D. 12 1,741 11	ਜੰ ਜੰ	6,261.75 967.86 5,718.75 374.82 946.80	8 8	34.80	5.594	10,069.20		5,262.54 5,262.54
12 8,433 134 134 134 134 134 134 134 134 136	ਜੰ	967.86 5,718.75 374.82 946.80	65	20 00	20000			5,262.54
12 0,153 12 134 12 134 12 134 12 134 12 134 12 134 12 134 12 134 12 134 12 134 13 13 13 13 13 13 1	–i	5,718.75 374.82 946.80	-39	70 00	1,219	1.288.44		18 346 90
ith Edmonton Hospitals 12 243 12 1596 12 8 12 8 12 8 1449 12 12 1596 12 12 1596 12 12 1596 12 12 1596		374.82 946.80		00.87	10,414	12.042.36		
12 1,596 12 2,739 12 3,449 12 4,044 12 4,074 12 3,408 12 3,408 12 2,460 12 3,408 12 3,408		946.80			240	356,94		1 291 92
12 1.38 1.12 2.46 1.12 2.460 1.12 4.074 1.12 3.408 1.12 3.408 1.12 3.408 1.12 3.408		1 0001	19	22.80	2,373	4.271.40		15,090 15
112 2,739 12 3,449 12 2,460 112 4,074 12 3,408 12 3,408 12 3,408 12 3,408 12 3,408 12 3,408		1.599.18	15	18.00	2,149	2,133,36	2.164	98 202 6
12 3,449 12 2,460 12 4,074 12 3,408 12 3,408 12 3,408 12 7,240		134.85			128	230.40		789 60
LD. 12 2,460 12 4,074 12 3,408 12 3,210		2,841.90	103	66.00	3,661	4,118.76		16 875 75
1.D. 1.2 4,074 1.2 3,408 1.2 3,240 1.2 7,240	1.03 871	2,924.70	100	21.60	4,408	5,099,58	4.438	20,516,91
12 3,408		1,361.70	8	36.00	2,916	2,909.52		13 077 19
12 321		2,185.53	었	38.40	4,777	5.418.18		27.010.02
12 7,240		4,813.23	23	27.60	4.991	5.806.08		20,000.14
0,240		884.85	-		2000	841 68		22,644.01
		9,658.06	39	46.80	10 220	15 164 90		0,044.91
12 5,552		2,293.68			6 300	7 797 07		33,449.23
4,242		4,633,44	106	197 90	0,00	10.000 x		2, 337.48
4,868		3,889,62	14	16.80	0,010	2,000.22		25,365.85
12 4.661		5 139 06	100	20.00	0,102	(,5(4.24		29,008.23
12 56		00.201.0	07	23.00	6,409	7,459.02		29,666.78
Waskatenau, Village	7 76	191	:	:	999	100.80	56	368.40
		121.00	:		126	178.56	126	708 18
200 0 61	(412.62	:	:	1,125	1.362.60		F 270 7F
0,000	.7	8,051.76	129	80.40	11,453	14.166.00		1000 C
7T, C 7T	H	4,137.60	36	43.20	6.484	8 033 58		20,075,00
Willington, M.H.D. 2,485 9,566	6.61 534	1,605.66	16	19.20	3.019	3 850 90		1,374.71
77		2,918.04	51	61.20	2,882	3 426 78	0,000	9 720 70
34	8.12	:	-		34	36.79		3,100.10

TABLE 12 — OPERATING EXPENDITURES — 1957

AL ITURE	Per Patient Day Incl. ½ Newborn Days	10.26 13.79 11.20 13.96	14.99 14.09 15.47 11.52	14.06 12.23 20.27 18.39 20.39	14.40 15.69 16.32 15.02	13.09 9.63 8.33 14.12 9.08
TOTAL	LatoT	120,608 149,152 181,938 72,092 76,304	49,635 50,044 175,880 36,924 128,178	197,503 346,595 4,085,266 2,035,811 97,571	408,322 121,376 43,012 115,530 32,227	138,068 54,475 47,248 60,369 49,822
	Capital frerest	6,345 15,906 4,886	1,024 1,090 7,877 1,581	6,298	9,576	2,349
	Depreciation	12,602 12,706 31,857 3,096 11,564	6,853 9,234 16,905 2,690 15,271	10,116 4,839 116,756 17,537	31,095 4,188 4,094 2,898	7,404 5,746 1,030 6,772 3,068
ure— ling ation pital	Per Patient Day Incl. ½ Newborn Days	8.65 12.61 8.23 10.72 10.95	12.61 11.18 13.29 10.69 9.92	12.89 12.06 20.27 17.05 16.72	12.96 15.15 16.32 14.49	12.17 8.61 8.15 12.26 8.52
Expenditure— Excluding Depreciation and Capital Interest	IstoT	101,661 136,446 134,175 68,996 59,854	41,758 39,720 151,098 34,234 111,326	181,089 341,755 4,085,266 1,886,836 80,034	367,651 117,189 43,012 111,436 29,282	128,315 48,729 46,218 52,418 46,754
	Miscellaneous	313 166 2,688 85 123	2,037	972 1,923 1,084	821 8 36 54	402 934 720 23 23
N N	Physical Plant	8,089 12,742 10,772 5,826 10,070	4,972 5,729 10,669 2,720 8,496	9,275 11,760 119,026 68,634 8,292	20,149 6,769 3,771 14,024 2,477	10,840 3,186 3,486 7,840 5,855
ENDITUR	General Services	17,248 9,747 14,863 10,586 5,250	5,421 20,387 1,181 8,384	22,348 28,330 414,478 1114,965 8,630	28,411 15,047 4,624 4,432 2,695	9,751 4,866 3,844 7,338 4,790
DIRECT EXPENDITURES	Professional Care of Patients	2,873 11,732 1,950 2,013 935	1,097 247 3,583 477 8,692	33,420 6,715 480,847 110,644	10,751 1,515 1,20 7,687	4,603 3,641 1,634 5,242 6,962
DII	General Adminis- tration	3,735 4,275 5,012 2,523 1,558	1,660 1,734 5,428 876 4,031	6,204 7,720 145,996 61,213 2,861	14,212 7,106 2,215 2,942 1,340	2,167 1,289 1,573 1,873
	Drugs and Redicines	6,532 8,383 5,142 4,556	2,675 1,756 9,203 2,277	3,075 109,358 1,231	24,737 12,022 4,125 813	810 7,070 2,614
	Medical, Surgical and Sterile Supplies	1,861 4,329 1,898 1,700	838 3,711 767	8,438 98,476 2,689	11,007 8,560 1,508 *	16,261 2,471 1,419
	Salaries SageW bns	61,010 97,784 86,178 40,923 35,662	24,652 25,630 98,117 23,898 81,723	109,785 274,745 2,924,919 1,321,623 55,175	257,563 66,160 26,649 82,315 20,746	83,481 25,262 31,218 30,402 26,998
	HOSPITALS	Athabasca, Municipal Banff, Mineral Springs Barrhead, St., Josephi's Bassano, Municipal Beaverlodge, Municipal	Bentley, Municipal Benyn, Municipal Bairmore, Crow's Nest Pass, Municipal Bonnyville, Katherine H. Prittie Bonnyville, St. Louis	Brooks, Municipal Calgary, Alberta Red Cross Calgary, General Calgary, Holy Cross Calgary, Salvation Army Grace	Carnrose, St. Mary's Cardston, Municipal Cardston, Our Lady of the Rosary Cereal, Municipal	Claresholm, Municipal Coaldate, Community Cod Lake, John Nell Consort, Municipal Coronation, Municipal

	ITURE	Per Patient Day Incl. % Newborn Days	10.18 5.03 20.26 16.48 15.19	12.78 17.58 16.91 16.23 16.84	18.69 9.89 11.18 14.26 15.52	10.29 15.73 14.07 8.64	14.75 11.58 11.88 10.61 8.97	12.52 12.80 11.53 13.10	9.93 12.62 12.63 22.43 14.95
	EXPENDITURE	Total	78,402 15,348 47,252 149,159 322,003	76,289 46,037 2,170,283 1,902,351 3,429,538	4,673,903 96,214 195,833 41,591 49,928	118,997 105,923 63,473 90,181	52,631 299,591 152,077 74,108 173,320	174,262 110,101 38,691 74,394 88,297	173,148 194,096 273,298 1,312,013 834,627
		Capital Interest	2,146	2,044 106,029 30,963 82,214	254,197 5,959 1,072	1,890 270 3,162 2,834 5,579	3,277 1,438 1,975 337 432	2,346	16,872 2,997 2,191 94,906 15,328
		Depreclation	7,080 1,840 17,358 21,757	9,956 153,780 99,607 74,424	116,952 6,033 14,390 4,074 3,190	11,920 3,263 4,448 9,993 12,055	6,273 14,255 5,000 5,760 8,534	8,656 9,204 2,375 6,819 7,182	18,670 14,775 12,636 131,242 60,387
	ure— ling ation tpital	Per Patient Day Incl. ½ Newborn Days	9.27 4.42 20.26 14.32 13.89	10.77 17.58 14.89 15.11 16.08	17.20 9.27 10.02 12.50 14.53	9.09 15.20 12.38 7.41 9.34	12.07 10.98 11.34 9.78 8.53	11.73 11.72 10.82 11.90 9.48	7.89 11.47 11.94 18.56 13.59
ed)	Expenditure— Excluding Depreciation and Capital Interest	IstoT	71,322 13,508 47,252 129,655 294,492	64,289 46,037 1,910,474 1,771,781 3,272,900	4,302,754 90,181 175,484 36,445 46,738	105,187 102,390 55,863 77,354 83,483	4,308 283,898 145,102 68,011	163,262 100,897 36,316 66,724 81,115	137,606 176,324 258,471 1,085,865 758,912
(Continu		Miscellaneous	3,220	1,036 1,090 39,630	1,123	2,609 365 4	3,721	304	24 8 347 26,499 2,873
-1957	ES	Physical Plant	5,638 2,645 3,451 9,302 16,626	11,095 5,563 84,290 97,590 148,025	231,996 5,839 16,506 3,504	8,130 3,534 6,862 9,381	5,254 21,535 12,034 3,609 9,993	10,211 6,641 4,203 8,454 6,985	20,215 10,189 18,881 37,474 26,071
OITURES	EXPENDITURES	General Services	9,073 2,058 3,698 16,039 37,679	9,967 11,396 185,201 72,754 442,269	357,020 5,615 16,511 5,719 6,849	14,138 20,478 6,523 9,663 11,219	4,199 36,306 9,609 8,852 14,117	20,122 13,144 4,648 6,177 8,983	12,053 18,652 34,564 122,178 59,978
EXPENDITURES—1957 (Continued)	DIRECT EXP	Professional Care of Patients	3,290 7,038 1,718	35,244 59,472 238,305	248,848 3,401 3,007 236 3,146	2,415 9,215 2,259 800	24,983 5,750 1,829 3,532	8,790 16,093 270 3,199 2,612	3,048 18,365 20,349 175,137 141,347
OPERATING	DIR	General Adminis- tration	2,801 455 673 5,898 10,145	2,249 5,386 62,534 70,686 154,130	159,503 2,251 6,917 1,694 2,211	4,167 8,191 2,167 2,363 1,904	2,396 10,614 5,695 4,423	7,106 4,534 1,983 1,802 3,711	5,063 6,296 14,635 28,324 23,848
		Drugs and Medicines		2,423 1,313 89,763 88,975 124,644	154,262 3,983 11,201 2,380	6,395 1,413 3,270 4,878	2,784. 15,930 6,883 2,021 10,236	12,152 1,296 2,604 5,620	6,869
TABLE 12		Medical, Surgical and Sterile Supplies	900 6 8 9,946 17,843	3,880 1,553 98,647 78,048 87,612	220,626 1,610 3,200 1,059	5,379 1,323 1,839	451 3,639 1,162 6,332	4,834 497 2,241 1,757	1,206
T		Salaries and Wages	43,949 8,291 32,366 69,935 193,452	34,547 19,790 1,353,705 1,264,626 2,077,915	2,929,376 67,482 116,352 22,345 30,104	64,463 58,363 36,473 48,575 53,569	26,445 165,421 101,492 48,248 115,663	99,579 60,181 23,419 42,247 50,961	89,128 120,305 159,316 696,253 504,795
		HOSPITALS	Daysland, Providence Desnarals, St. Martin's Devon. Civic Didsbury, Municipal Drumheller, Municipal	Eckville, Municipal Mone Bafmonton, Beulah Home Edmonton, General Edmonton, Misericordia Edmonton, Royal Alexandra	Edmonton, University Edson, St. John's Elk Point, Municipal Elnora, Municipal Empress, Municipal	Fairview, Municipal Port Macdod, Municipal Fort McMurray, St. Gabriel Fort Vermilion, St. Theresa Galahad, St. Joseph's	Glendon, Municipal Grande Pratife, Municipal Hanna, Municipal Hardisty, St. Anne's High Prairie, Municipal	High River, Municipal Insistal, Municipal Islay, Municipal Jasper, Seton Killam, General	Lac La Biche, St. Catherine's Lacombe, Municipal Lamont, Archer Memorial Lethbridge, Municipal Lethbridge, St. Michael's

10.98 13.91 13.93 12.15 16.24	16.62 8.51 10.93 15.90 15.67	17.70 11.83 11.71 14.91 18.35	12.57 13.82 15.57 13.69 12.00	13.69 11.06 10.56 11.35 13.59	14.96 13.28 11.95 11.88	12.71 12.85 15.01 12.54 11.20	14.89 9.12 10.20 10.60	15.54
210,726 69,963 66,644 49,111	706,928 19,533 59,399 70,883	50,778 171,174 125,232 169,727 98,502	60,375 55,777 495,603 134,979 98,651	41,853 169,859 182,150 200,543 257,058	89,472 110,812 71,196 81,233 101,468	265,299 132,294 133,662 48,020 99,098	190,037 207,597 171,274 56,027	2,261,054
17,609 2,955 3,838 2,827	96,012 1,293 3,278 2,436	1,778 1,786 6,641 4,123	991 12,059 3,780 5,711	1,684 11,803 1,079 3,368 11,654	2,395 3,264 510 142 4,022	7,950 4,413 1,598	3,100	965,490 32,261,054
23,102 4,956 11,519 3,596 8,287	1,793 3,118 12,748 9,355	3,494 10,271 13,852 20,664 8,559	2,494 2,843 29,901 9,225 10,679	2,311 25,285 16,305 9,638 24,502	10,274 11,587 9,528 4,106 14,347	23,010 17,500 14,422 3,732 9,380	17,144 25,014 14,710 4,076	1,669,530
8.85 12.34 10.72 11.26 14.72	14.37 7.16 10.36 12.30 14.41	16.31 11.00 10.41 12.51 15.99	12.05 12.87 14.25 12.37 10.01	12.38 8.65 9.55 10.62 11.67	12.84 11.43 11.39 11.33 9.73	11.60 10.38 12.89 11.57 9.96	13.15 7.88 9.32 9.83	14.27
170,015 62,052 51,287 45,515 108,268	610,917 16,447 56,280 54,857 134,523	46,806 159,117 111,380 142,422 85,819	57,881 51,942 453,643 121,974 82,261	37,858 132,771 164,766 187,537 220,902	76,803 95,961 61,158 76,985 83,099	242,145 106,844 114,827 44,288 88,120	167,786 179,483 156,564 51,951	124,933 29,626,034
3,346	3,515	168 39 50 155	5,248 5,248 434	321 312 287 687	3,862	96	703	124,933
25,972 6,248 9,072 3,832 8,901	16,559 1,261 8,878 7,322 10,019	5,917 16,071 12,175 13,536 8,701	5,128 2,333 18,895 10,442 15,067	3,687 20,117 8,593 9,325 13,917	8,574 5,859 7,490 6,481 6,410	15,154 9,678 7,676 4,403 9,848	10,573 10,161 7,465 4,836	1,636,771
12,178 8,315 5,794 6,111 12,784	66,544 2,407 5,171 6,749 15,966	4,213 18,781 7,264 13,678 7,753	6,655 6,522 44,976 19,458 8,783	13,057 18,072 20,253 21,354	7,741 15,659 5,487 11,246 10,839	13,925 11,094 9,795 3,410 10,169	16,176 18,911 20,022 3,837	2,899,715
3,098 7,881 800 6,289 2,432	100,483 1,083 2,730 5,778 10,756	14,511 24,742 6,964 13,031 4,204	1,743 3,775 15,378 3,641 5,853	1,970 1,313 3,119 28,059	1,007 4,087 776 1,927 10,195	11,980 2,097 2,850 262 8,439	11,085 8,185 4,352 2,551	2,105,447
7,2,2,4, 2,5,5,4,4, 2,5,5,8,8,4,4,4,6,9,8,9,8,9,8,9,9,9,9,9,9,9,9,9,9,9,9,9	15,773 1,118 1,983 2,417 5,137	1,872 6,003 5,559 7,021 2,591	3,256 1,703 12,381 5,331 2,980	1,871 7,504 3,938 5,026 6,111	3,051 3,314 1,379 3,525 3,525 3,339	10,185 5,930 5,530 1,627 3,962	10,078 4,511 4,160 2,467	1,101,954
8,113 1,769 * 7,677	* * * * * 0,1,7	4,142	2,013 4,322 39,501 6,941	2,540. 6,817 7,495 5,152 3,000	3,279 8,715 2,624 4,772	23,371 3,832 12,876 1770	14,057 11,283 10,103	1,001,520
2,670 1,598 7,226	2,434	* * * 2,679	1,153 1,829 7,574 5,545	1,423 2,556 4,092 19,312 5,000	3,269 4,704 332 3,559	8,623 2,730 4,461 471	6,419 4,068 5,784	848,818
110,085 36,983 26,309 27,391 63,100	408,043 10,577 37,518 32,591 82,677	20,126 93,481 75,277 95,107 55,853	37,933 31,205 309,690 70,519 49,145	26,045 81,095 119,457 128,182 142,774	49,881 49,761 43,070 44,975 52,315	158,811 71,484 71,616 33,343 55,530	98,695 121,730 104,677 38,078	19,906,876
McLennan, Sacred Heart Magrath, Municipal Manning, Municipal Mannville, Municipal Mayerthorpe, Municipal	Medicine Hat, General Mercoal, Municipal Myndare, General Myrnam, Municipal	Oyen, Municipal Peace River, Municipal Pincher Creek, St. Vincent's Poncka, Municipal Provost, Municipal	Radway, St., Joseph's Raymond, Municipal Red Deer, Municipal Rimbey, Municipal Rocky Mountain House, Municipal	Smoky Lake, Municipal Spirit River, Holy Cross T. Paul, St. Theresa Stettler, Municipal Taber, Municipal	Three Hills, Municipal Tofield, Municipal Toroth, St. Mary's Turner Valley, Municipal Two Hills, Municipal	Vegreville, St. Joseph's General Vermilion, Municipal Viling, Municipal Vilina, Our Lady's Vulcan, Municipal	Wainwright, Municipal Westlock, Immaculata Wetaskiwin, Community Willingdon, General	Total

* Included with Direct Expenditures, Professional Care of Patients † Included with Drugs and Medicines



oun	5,156 1,127 4,779	9,234	26,957	1,979 14,730 6,026 1,860 12,304	11.172	7,599	1.534	7,369	13,893 646 12,007		18,213	221.471
0.40	4.196	2,595 201	3,470 9,377 57,373		11,352 4,804	4,967	21,136 9,770 160 101,851	2,958 6,900 3,547	15.727	31.333 64.565 1.809 6.601	8.793 8.651 1.716 4.070	401,557
นก						10.600						10,600
۸٥	162 5,938 16,245 16,601 3,659	36,020 49,459 38,134 11,453 18,192]	7,401 13,422 6,427 35,813 91,714	6,610 7,801 13,524 11,549	21,064 11,827 17,799 25,846 18,433	18,580 4,392 20,859 481,686	19,127 12,666 46,582 369,643 3,380	18,226 45,825 19,127 10,631 43,348	31.665 15.873 133.651 20,682 9,410	16,983 49.759 62,011 25,413 19,293	12,687 17,055 31,254 15,392 21,382 26,269	2,121,326
DQ.	5,318 7,065 21,024 12,405 15,236	45,254 38,636 35,539 11,438 19,061	34,358 9,952 56,021 62,341	8,589 22,531 19,550 13,409 13,269	9,712 10,905 12,995 37,018 22,006	13.613 4,367 28,858 463,453 5,390	10,408 2,896 46,422 267,792 4,914	15,268 38,925 15,580 18,000 42,393	45,558 16,519 117,924 32,770 11,417	6.123 18.426 23,604 12,692	3,894 8,404 29,538 33,605 17,312 36,450	1.936,142
ns			2,948							2.554		5.502
H G	7,421 5,700 2,000	9,500	3,857 4,616 21,498	3,488 4,500 10,800 3,000	1,951	5.500 84,260 3,500	4,931 8,159 72,337 1,635,	4,230 5,763 2,800 11,378	5,000 2,187 25,358 7,000 4,331	16,566 5,650 5,365	7,162 10,049 6,500 3,000 9,500	406.671
ot E	11,960 3,152 6,156 5,950	6,685 73 303 6,167	3,543	1,146 608 1,882 3,024	4.167	21,526 1,584 4,955 40,83 2,307	1,825 1,555 776 2,898	875 3.517 6.963	9,385 4,265 12,270 872 1,226	4,307	19,605 15,275 4,804	250,135
Čei -	6,648 891 6,577 1,072 3,098	7.909 8.683 1.258 47	3,049 1,179 20 4,107 7,236	2,061 15,322 1,072 471 5,793	1,296 5,077 17,570 1,853 3,711	712 509 4.550 111.298 3.570	5,912 9,800 123,168 4,271	4,307 2,748 1,477 10,544 9,740	4.659 2,954 15,273 10,511 9,711	13,742 18,672 3,047 4,069	569 4,766 9,009 4,725 1,725	508,068
D	3,022 1,827 5,633 4,188	21,160 29,883 34,210 11,128 12,202	23,909 8,773 30,476 32,182	2.206 1.563 7.070 11.056 1.452	6,465 5,828 35,165 10,128	2,274 13,853 227,056	1,341 27,687 72,287	5.856 30,414 14,103 1.139 14,312	26.514 7,113 65,023 14,387	4,380 4,684 13,095 3,258	3,325	887,071
s	20,71		2.968		9,575	3,987	2,260	THIT	3,851	42,099	8,466 9,125 5,748	121.305
Zæ	101,660 68,996 59,854 41,757 39,720	151,098 181,088 117,186 43,013 29,282	128,315 52,417 46,754 129,656 294,493	64,289 175,483 36,444 46,737 105,187	102.391 43.082 283,897 145,101 163,261	36,316 176,324 085,866 62,052	51,287 45,515 108,269 610,916 16,447	54.858 134.524 46.807 159.117 142,422	85.820 51.943 453.643 121.974 82.261	37.858 187.537 220.901 76.803 95.960	76.985 83.099 106,844 114,827 88,120 167,786	7.535,140
u u	6,345 4,886 1,024 1,090	6,298	2,349 1,179 2,146 5,754	2,044 5,959 1,072	3,277 1,438 1,975 2,347	2,997 94.906 2,955	3,838 2,826 96,012 1,293	3,278 2,436 477 1,786 6,641	4,123 991 12,059 3,780 5,711	1,684 3,368 11,654 2,395 3,264	142 4,022 7,950 4,413 1,598 5,107	350.973
1	12,602 3,096 11,564 6,853 9,234	16,905 10,116 4,188 2,898	7,404 6,772 3,068 17,358 21,757	9,956 14,390 4.074 3,190 11,920	3,263 6,273 14,255 5,000 8,656	9,204 2,375 14,775 131,242 4,956	11.519 3,596 8,287 1,793	12,748 9,355 3,494 10,271 20,664	8,559 29,901 9,225 10,679	2,311 9,638 24,502 10,274 11,587	4,106 14,347 17,500 14,422 9,380 17,144	655,489
H	120,607 72,092 76,304 49,634 50,044	175,880 197,502 121,374 43,013 32,227	138,068 60,368 49,822 149,160 322,004	76,289 195,832 41,590 49,927 118,997	105,924 52,632, 299,590 152,076 174,264	110,102 38,691 194,096 1,312,014 69,963	66.644 49.111 119,382 706,928 19,533	70,884 146,315 50,778 171,174 169,727	98,502 55,777 495,603 134,979 98,651	41.853 200.543 257.057 89,472 110.811	81,233 101,468 132,294 133,662 99,098 190,037	8,541,602
1 1177	122,371 65,974 58,027 36,124 35,532	129.938 151.205 82.976 31.885 17.808	104,406 43,644 49,722 99,180 262,311	62,083 173,920 29,374 35,681 103,735	95,926 37,254 293,472 109,936 153,133	109,523 34,042 162,471 858,810 66,039	53,547 44,174 80,582 538,629 20,337	49,002 104,110 32,704 157,978 128,110	59,306 44,830 388,620 107,587 86,112	33,478, 182,853 263,000 63,708 92,702	73,660 91,565 115,969 99,804 93,868 147,365	5,769,374
202	162 (4,420) 6,781 16,601 159	19,775 39,422 30,134 11,453 17,564	28,566 9,172 5,426 31,195 68,791	6,610 2,156 10,308 12,452 7,535	20,850 11,827 1,939 14,245 14,243	4,391 20,859 481,686 4,088	26,613 12,666 46,732 263,966 3,380	12,498 24,581 14,125 6,331 43,348	18,665 13,469 92,293 20,683 3,853	16.938 38.503 58.116 17.585 13.928	6,302 3,392 31,254 7,392 21,382 12,186	13,155 1,724,386 6,769,374
	303 84 84 88 88	13 8 6 21	300	130	99 999 929 939	122	74	4,042	47 12 532 104	132	2,260	13,155
-	\$355 1,488	1,172	1,743	(13) 9.233 400 3.890	1,800 16,066 (821) 808	712 509 584 16,270	2,000 6,953 26,647 2,978	312 1,000 4,716 3,099	489 1.951 2.682 6.627 4.000	10,374 7,018 652 673	383 243 1,059 (188) 3,122 (5,642)	143,918
-	122,230 60,663 63,117 52,677 33,683	149,681 188,242 111,852 43,336 34,644	132,272 52,816 55,128 128,414 329,620	68,698 166,713 39,682 47,662 107,367	115,750 47,281 279,279 124,303 166,202	108.811 37.924 181.777 1.324.104 69,512	78,086 56,840 120,340 775,439 20,739	60,471 128,379 45,829 155,551 168,359	77,435 56,336 477,699 121,539 85,965	50,402 210,982 314,098 80,641 105,825	79,535 94,213 146,164 107,384 112,063 162,933	8,336,687
	Athabasca Basano Basarologge Bentley Bertwyn	Blatimore Brooks Gardston Carmangay	laresholm Obract Occoration idsbury	Eckville Elk Point Elk Point Empress Empress	Fort Macleod Stendon Grande Prairie Hanna	nnisfail slay acombe acombe lagrath	danning fannville dayerthorpe fordeline Hat	ılyrnam Dids Dysm Sacae River	Provost Raymond Red Deer Rimbey Rocky Mountain Hou	moky Lake stettler aber Three Hills	urner Valley Vo Hils ermilion ermilion ulcan	TOTAL OF TABLE A
1	Att Ba Ber Ber Ber	Car	55555	Ein Ein Fai	For Cre Cra Har Hig	Let May	Ma Ma Mer Mer	My Old Oye Pea Pon	Ray Red Rim Roc	Sm Ste Tak Thr	Two Ver Vik Vul	

*Includes \$223.979 outpatient revenue.
*Less proceeds from debenture issue and construction grants.

\$ 25.07.0 CS.95 120.550	/	3.250.00 R330.00				0. 1. 8 15.		TIME SECTION AND ADDRESS OF THE SECTION ADDRESS OF THE SECTION AND ADDRESS OF THE SECTION ADDRESS OF THE SECT		500	130.00 III 220.00.00	8888	2.880.0 (2.830.0 (2.8	0.000000000000000000000000000000000000	
	Baoff M.H.D. No. 71 Banff National Park Lake Louise Outlying Areas	Barrhead M.H.D. No. 67 w.D. Westlock No.	M.D. Lac Ste. Anne No. 8. M.D. Barrhead No. 106 L.I.D. No. 108 Town of Barrhead	Bassano M.H.D. No. 6 County of Vulcan County of Newell	M.D. of Wheatland No. 40 Town of Bassano Willage of Hussar Village of Rosemary	Beaverlodge M.H.D. No. 33 County Grande Prairie No. 1. Town of Beaverlodge	Benuey M.H.D. No. 43	M.D. Lacombe No. 64 County of Ponoka No. 1. M.D. Red Deer No. 1.	Berwyn M.H.D. No. 30		Town of Grimshaw Village of Berwyn	Bow Island M.H.D. No. 72 M.D. Econo. M.H. D. No. 72	Town of Bow Island Village of Foremost Village of Burdett	Boyle M.H.D. No. 61 Athabasca. No. 103 County of Thorbital No. 7 L.I.D. No. 102 Village of Boyle	
oun											221,471				
PAO											401,557				
nun											10,600				
ĐΛΟ											2,121.326				
Det	8,532 4,222 9,871 1,482,673	325,520 65,316 40,068	19,223	191.714 100.819 207.826 11.990	11,645 30,963 27,154	18,896	11,023 8,439 13,159 21,400	8,188	3,105	5 2,727,784	246,247 4,663,926				
ang		2,342	15,830	138,972	669	7,836	1,581	4,016	17,767	240,745					
Kel Dei	22,000 6,521 832,953	95,000 28,126 5,000	3,782	106,000	3,000	21,000	25,000	7,500	3,908	1,477,914	1,884,585				
Exp	8,974 3,700 7,768	5,977	1,512	78,241 85,304 21,735	1,843 4,552 27,681 34,623	6,496 3,284 927 11,889	1,505 4,498 4,605 10,519	2,938 2,938 8,065 868 15,487	4.729	443,474	693,609				
Cal	5,657 15,549 6,447 3,836 43,938	118,220 (59) 21,330 712	7.351 839 344 1,802	155,422 38,114 128,007 2260,287 6,242	4,839 8,534 8,597 5,914	3.765 5,050 38,159 23,705 30,749	25,429 5,115 (209) 2,212 13,767	1,775 2,799 (6,956) 654 10,908	3,441	1.047,120	1,641,726 1,555,188				
Det	605.782	9,883 23,957	18,879 860 14,669	5,395	6.083	2,635	6,342	2,451		754,655					
ung	37.991 37.991 5.925 8,254	2,283	23,181	147,949 127,599 399,259 15,987	17.196 9,197 5,632 49,708	16,170 50,763 27,591 61,580	40,911 1,175 1,372 24,886	19,236 5,128 81,730	3,621	1,236,124	1,357,429				
Net Exp	136,447 134,174 34,234 111,325 4,085,267	367,651 111,436 48,731	46,218 71,322 47,252 13,507 46,037	1,910,474 1,771,781 3,272,900 4,302,754 90,181	55,864 77,355 83,483 68,010 164,353	66,722 81,116 137,605 258,471 758,912	170,015 56,281 111,380 57,881	164,766 61,158 242,145 44,288 179,482	156,564	614,516 21,749,135	965,489 29,284,275				
deCl stri	15,906	9,576		30.3	3,162 2,834 5,579 337 432	851 16.872 2.191 15,328	17,609	1,079 510 144 3,100							
Deb	31,2706 31,857 2,690 15,271	116.756 17.537 31.085 4.094 5.745	1,030	153,780 99,607 74,424 116,952 6,033	4.448 9.993 12.055 5.760 8.534	6,819 7,182 18,670 12,636 60,387	23,102 3,118 13,852 2,494 25,285	16,305 9,528 23,010 3,732 25,014	14,710	1,009,207	1,664.696				
iva	149,153 181,937 36,924 128,177 4,085,267	2,035,812 97,571 408,322 115,530 54,476	47.248 78.2402 47.252 15.347 46,037	2,170,283 1,902,351 3,429,538 4,673,903 96,214	63,474 90,182 101,117 74,107 173,319	74,392 88,298 173,147 273,298 834,627	210,726 59,399 125,232 60,375 169,859	182,150 77,196 265,299 48,020 207,596	171.274	23,372,858	31.914.460				

49.781 94.551 92,680 73,642 214.061

739 5.820 2.387 5.574 40.311

61,087 97,286 188,368 286,062 820,492

1,642

2,914 3,408 21,287 7,970 (1,869)

58,173 92,236 174,227 264,548 805,071

t. Michael

210,926 57,456 112,752 51,539 157,657

13,544 17,290 1,008 2,592

182,501

2.700

163 318 318 970 480 240 240 278

183,306 56,418 257,073 38,077 253,404

6,812 2,523 (209) 2,049 1,646 1,250) 1,319 7,580) 7,530

203,106 52,341 112,961 49,327 155,693

103,840 1.993,980 28,999,978 269,594 22,230,604

.405,001

TOTAL (A & B)

90,685

341,199 485,117

22,068,314

OF TABLE B

2,058,423 1,899,380 3,267,505 4,702,013 106,168

64.915 38,701 2.218 B 3,163 7,146

39,495 2,314 36,000

Asericordia oval Alexandra Iniversity

eulah Home

ohn Neil

9,898 9,793 6,090 132 938 631 3

2,073,945 1,892,228 3,260,413 **4,695,923 | 102,144 | 48,104 | 89,569 | 89,569 | 89,662 | 68,065 | 68,065

141,726 172,165 40,159 119,579

Net

Cus

Deb Bød

Tots N9H

82.317 82.317 357.768 87.478 60.213

9,736 1,688

82,376 355,750 88,455 60,213

y Cross vation Army

c.H.P. st. Louis neral

312 94 927 6,216 6,331 1,790 1,790

5,345 (451) 6,447 1,328 37,722 (75) (75) 9,964 283

136,069 172,522 33,712 123,319 3,435,547

69,399 80,424 28,373 12,647 31,368

80 12,000

182

6,631 657 344 1,703

62,768 79,665 40,029 10,845 34,610

Colgary A Neter Red Cross
6568,525 outpatient revenue
9592,537 outpatient revenue
5592,537 outpatient revenue
5592,537 outpatient revenue
5594,537 capital interest

TABLE 14 — 1957 TAX REQUISITION

Contributing Units	Requisition	Acreage	Assessed Value	Mill Rate	Popu- lation
Athabasca M.H.D. No. 13 M.D. No. 103 County of Thorhild L.I.D. No. 107 L.I.D. No. 122 Town of Athabasca	\$ 15,294.00 168.00 1,071.00 715.00 7,053.00	392,600	\$ 2,780,710.00 30,550.00 194,709.00 130,014.00 1,282,510.00	5.5 5.5 5.5 5.5 5.5	5,115 1,0 96
	\$ 24,301.00	456,804	4,418,493.00	5.5	6,411
Banff M.H.D. No. 71 Banff National Park Lake Louise Outlying Areas	\$ 13,300.00		\$13,300,000.00	1.	2,753 53 43
	\$ 13,300.00		\$13,300,000.00	1.	2,849
M.D. Westlock No. 92 M.D. Lac Ste. Anne No. 93 M.D. Barrhead No. 106 L.I.D. No. 108 Town of Barrhead	\$ 474.00 467.00 16,389.00 1,326.00 6,344.00		104,220.00 102,630.00 3,601,230.00 291,270.00 1,393,940.00		1,576
	\$ 25,000.00	415,445	\$ 5,493,290.00	4.5	2,065
Bassano M.H.D. No. 6					
County of Vulcan County of Newell M.D. of Wheatland No. 40 Town of Bassano Village of Hussar Village of Rosemary	\$ 4,385.00 10,540.00 3,906.00 1,521.00 546.00 342.00	98,470 537,854 185,071	\$ 1,152,314.00 2,770,048.00 1,026,370.00 399,796.00 143,648.00 89,926.00	3.8 3.8 3.8 3.8 3.8 3.8	425 1,600 350 746 190 200
	\$ 21,240.00	821,395	\$ 5,582,102.00	3.8	3,511
Beaverlodge M.H.D. No. 32					
County Grande Prairie No. 1 Town of Beaverlodge	\$ 15,802.00 8,068.00		\$ 1,316,770.00 672,330.00	12. 12.	3,000 850
	\$ 23,870.00	225,360	\$ 1,989,100.00	12.	3,850
Bentley M.H.D. No. 43 M.D. Lacombe No. 64 County of Ponoka No. 3 M.D. Red Deer No. 55 Village of Bentley	\$ 17,116.00 568.00 205.00 5,570.00		\$ 1,711,620.00 56,860.00 20,510.00 464,150.00	10. 10. 10. 12.	
	\$ 23,459.00	117,025	\$ 2,263,140.00	11.	2,192
M.D. of Peace L.I.D. No. 138 L.I.D. No. 139 Town of Grimshaw Village of Berwyn	\$ 6,426.00 680.00 374.00 3,519.00 1,501.00	158 111	\$ 1,760,340.00 186,399.00 102,325.00 964,000.00 322,095.00	3.65 3.65 3.65 3.65 4.65	962 370
	\$ 12,500.00	234,516	3,335,219.00	3.7	2,605
Bow Island M.H.D. No. 72 M.D. Forty Mile No. 2 Town of Bow Island Village of Foremost Village of Burdett	\$ 15,666.00 2,883.00 1,589.00 542.00		\$ 5,222,040.00 961,060.00 429,815.00 180,725.00	3. 3. 3. 3.	3,275 990 441 224
	\$ 20,680.00	300	\$ 6,893,640.00	3.	4,930
Boyle M.H.D. No. 61 Athabasca No. 103 County of Thorhild No. 7 L.I.D. No. 102 Village of Boyle	\$ 6,084.00 61.00 553.00 2,117.00	141,454 3,040 19,194	\$ 1,058,020.00 10,670.00 96,161.00 368,080.00	5.75 5.75 5.75 5.75	
	\$ 8,815.00	163,688	\$ 1,532,931.00	5.75	3,126

Contributing Units	Requisition	Acreage	Assessed Value	Mill Rate	Popu- lation
Brooks M.H.D. No. 28 County of Newell No. 3 County of Vulcan No. 2 S. A. No. 4 I.D. No. 22 Town of Brooks Village of Duchess Village of Tilley	626.00 155.00 22,545.00 1,266.00	734,592 6,000 57,040 6,223	\$ 5,226,255.00 75,830.00 68,057.00 16,790.00 2,450,545.00 137,648.00 155,960.00	9.2 9.2 9.2 9.2 9.2 9.2 9.2	6,985 24 100 20 2,500 210 197
	\$ 74,804.00	803,855	8,131,085.00	9.2	10,037
Calgary Rural M.H.D. No. 63 M.D. of Foothills No. 31 M.D. of Wheatland No. 40 M.D. of Rocky View No. 44 M.D. of Kneehill No. 48 M.D. of Mountain View No. 49 L.I.D. No. 46 L.I.D. No. 50 Town of Gleichen Town of Strathmore Village of Acme Village of Arme Village of Airdrie Village of Cluny Village of Cochrane Village of Crossfield Village of Trockan	\$ 5,370.00 18,346.00 37,800.00 3,830.00 4,000.00 2,780.00 560.00 40.00 980.00 740.00 680.00 1,170.00 380.00 1,670.00 980.00 390.00 580.00 580.00 740.00		\$ 2,683,318.00 9,167,270.00 18,903,263.00 1,915,068.00 1,915,068.00 1,998,113.00 279,641.00 15,916.00 272,536.00 728,170.00 227,869.00 190,173.00 423,150.00 100,020.00 478,885.00 267,035.00 169,950.00 251,595.00	24.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	2,000 4,680 12,540 1,300 1,800 4,608 75 435 7117 287 299 320 172 711 450 165 240
	\$ 83,210.00	2,302,508	\$39,575,198.00	2.	33,383
Cardston M.H.D. No. 5 M.D. of Cardston No. 6 Town of Cardston	\$ 38,402.00 15,816.00 \$ 54,218.00	900,000	\$ 5,486,095.00 2,259,451.00 \$ 7,745,546.00	7. 7. 7.	3,819 2,500 6,319
Castor M.H.D. No. 41 M.D. of Paintearth No. 53 County of Stettler No. 6 Town of Castor Village of Halkirk	\$ 8,799.00 137.00 2,750.00 504.00 \$ 12,190.00	375,184	\$ 2,933,013.00 45,470.00 916,640.00 168,204.00 \$ 4,063,427.00	3. 3. 3. 3.	1,900 50 952 160 3,062
Cereal M.H.D. No. 46 S. A. No. 3	\$ 20,400.00 1,635.00 \$ 22,035.00	715,588 60 715,648	\$ 1,394,425.00 111,770.00 \$ 1,506,195.00	14.6 14.6 14.6	161
Claresholm M.H.D. No. 24 M.D. Willow Creek No. 26 Town of Claresholm Town of Stavely	\$ 17,964.00 9,153.00 1,449.00 \$ 28,566.00	344,526	\$ 5,132,500.00 2,615,365.00 414,110.00 \$ 8,161,975.00	4. 3.5 3.5 3.7	4,200 3,000 395 7,595
Consort M.H.D. No. 22 S. A. No. 3 Village of Consort	\$ 20,745.00 3,684.00 \$ 24,429.00	776,029	\$ 2,312,730.00 411,030.00 \$ 2,723,760.00	9. 9. 9.	2,000 450
Coronation M.H.D. No. 39 M.D. of Paintearth M.D. of Provost S.A. No. 2 and 3 Town of Coronation	\$ 9,075.00 222.00 1,925.00 3,320.00		\$ 2,268,737.00 55,510.00 481,253.00 830,000.00	4. 4. 4. 4.	
	\$ 14,542.00	593,619	\$ 3,635,500.00	4.	3,050

Contributing Units	Requisition	Acreage	Assessed Value	Mill Rate	Popu- lation
Crows Nest Pass M.H.D. No. 40					
M.D. of Pincher Creek No. 9. L.I.D. No. 10	\$ 1,794.00 29,819.00 14.631.00		\$ 142,470.00 2,367,536.00 1,161,637.00	12.595 12.595 12.595	175 3,251
Town of Coleman	8,414.00 1,337.00		668,045.00 106,175.00	12.595 12.595	1,845 221
	\$ 55,995.00	49,479	\$ 4,445,863.00	12.6	5,492
D					
M.D. of Camrose No. 63 M.D. of Flagstaff No. 62 M.D. of Beaver No. 73 Town of Daysland	\$ 5,015.00 7,636.00 774.00 2,021.00		\$ 1,253,930.00 1,909,100.00 193,720.00 505,418.00	4. 4. 4. 4.	117
	\$ 15,446.00	250,243	\$ 3,862,168.00	4.	3,401
Didsbury M.H.D. No. 33 M.D. Mountain View No. 49 L.I.D. No. 50 Town of Didsbury Village of Carstairs Village of Cremona	164.00 8.604.00	425,212 7,209 902 207 100	\$ 5,738,401.00 25,314.00 1,323,925.00 537,740.00 128,060.00	6.5 6.5 6.5 6.5 6.5	3,900 1,193 502 215
	\$ 52,008.00	432,630	\$ 7,753,440.00	6.5	5,810
				14	
Delburne M.H.D. No. 62					
Pt. M.D. of Red Deer Village of Delburne	\$ 4,650.70 1,349.30	124,840	\$ 1,401,536.00 406,620.00	3.1 3.1	1,400 420
	\$ 6,000.00	124,840	\$ 1,808,156.00	3.1	1,820
Drumheller M.H.D. No. 3 M.D. of Wheatland No. 40 M.D. of Starland No. 47 M.D. of Kneehill No. 48 L.I.D. No. 42 S. A. No. 2 City of Drumheller Village of Munson Village of Munson Village of Rumsey Village of Della Village of Carbon	\$ 15,960.00 43,350.00 21,110.00 31,500.00 1,500.00 18,930.00 470.00 1,350.00 550.00 1,990.00 1,640.00		\$ 2,060,198.00 5,580,985.00 2,710,885.00 2,822,640.00 192,440.00 2,440,540.00 58,715.00 174,372.00 70,402.00 237,400.00 213,000.00	7.75 7.75 7.75 7.75 7.75 7.75 7.75 7.75	1,230 2,915 3,000 6,600 120 2,563 90 220 121 265 387
	\$138,350.00	724,309	\$16,581,577.00	7.75	17,511
Drayton Valley M.H.D. No. 7 I. D. No. 77 I. D. No. 78 Town of Drayton Valley Town of Lodgepole Village of Cynthia	\$ 2,834.00 949.00 2,344.00 30.00 22.00	65,855 6,637	\$ 1,511,352.00 505,928.00 1,250,000.00 16,140.00 11,430.00	7.5 7.5 7.5 7.5 7.5	4,500 2,000 3,000
	\$ 6,179.00	72,492	\$ 3,294,850.00	7.5	9,500
THE WAY DO NOT BE					
Eckville M.H.D. No. 30 M.D. of Red Deer No. 55 M.D. of Lacombe No. 64 L.I.D. No. 65 Village of Eckville	\$ 4,999.00 8,472.00 4,597.00 2,252.00		\$ 989,900.00 1,677,730.00 910,433.00 405,810.00	5.05 5.05 5.05 5.55	
	\$ 20,320.00	283,094	\$ 3,983,873.00	5.6	4,438
Elk Point M.H.D. No. 18 M.D. of St. Paul No. 86	\$ 15,435.00	242,673	\$ 1,715,045.00	9.	3,000
M.D. of Bonnyville No. 87 M.D. of Eagle No. 85 M.D. of Vermilion River No. 71	1,422.00 2,114.00	24,396	158,030.00 234 905 00	9. 9.	320
M.D. of Vermilion River No. 71	6,857.00 209.00	79,140 7,720	761,920.00 23,280.00	9. 9.	954
L.I.D. No. 102	\$ 4,235.00		470,610.00	9.	
	\$ 30,272.00	352,929	\$ 3,363,790.00	9.	6,472

Contributing Units	Requisition	Acreage	Assessed Value	Mill Rate	Popu- lation
M.D. of Red Deer No. 55 M.D. of Kneehill No. 48 Village of Elnora	5,236.00		\$ 1,092,814.00 551,175.00 198,465.00	9.5 9.5 10.5	550 200
	\$ 17,701.00	167,160	\$ 1,842,454.00	9.8	1,849
Empress M.H.D. No. 53					
M.D. of Acadia No. 34 S.A. No's. 2 and 3 L.I.D. No. 21 Village of Empress	\$ 6,796.00 6,456.00 813.00 2,329.00	132,315 92,136 20,512 320	\$ 849,510.00 806,940.00 101,660.00 291,130.00	8. 8. 8.	475 538 125 475
	\$ 16,394.00	245,283	\$ 2,049,240.00	8.	1,613
Fairview M.H.D. No. 136 M.D. of Fairview No. 136 L.I.D. No. 139 Town of Fairview Village of Hines Creek	\$ 9,641.00 6,562.00 7,016.00 1,462.00		\$ 2,410,342.00 1,640,459.00 1,257,480.00 365,620.00	4. 4. 5.5 4.	1,885 2,612 1,240 352
	\$ 24,681.00	487,898	\$ 5,673,901.00	4.4	6,089
Glendon M.H.D. No. 57 M.D. of Bonnyville No. 87 M.D. of St. Paul No. 86 L.I.D. No. 101 Village of Glendon	\$ 9,365.70 16.00 6,904.50 3,762.20	68,822 160 79,917	\$ 425,715.00 730.00 313,841.00 171,010.00	22. 22. 22. 22.	1,500 1,200 400
	\$ 20,048.40	148,899	\$ 911,296.00	22.	3,100
Grande Prairie M.H.D. No. 14 County of Grande Prairie No. 1 L.I.D. 111, 126, 132, and 134 Town of Grande Prairie Village of Wembley Village of Sexsmith Village of Hythe	\$ 30,351,00 11,559.00 25,740.00 923.00 2.038.00 2,294.00	690,865 345,490	\$ 6,744,820.00 2,568,695.00 5,720,147.00 205,070.00 452,930.00 509,780.00	4.5 4.5 4.5 4.5 4.5 4.5	7,000 6,220 268 416 482
	\$ 72,905.00	1,036,355	\$16,201,442.00	4.5	14,386
M.D. of Starland No. 47 County of Stettler Special Areas Town of Hanna Village of Craigmyle	\$ 7,990.00 3,052.00 23,985.00 16,932.00 1,113.00		\$ 1,119,740.00 427,710.00 3,361,288.00 2,372,810.00 156,003.00	7. 7. 7. 7. 7.	500 338 3,350 2,200 135
	\$ 53,072.00	1,453,271	\$ 7,437,551.00	7.	6,523
High River M.H.D. No. 11 M.D. of Willow Creek No. 26 M.D. of Foothills No. 31 County of Vulcan No. 2 L.I.D. No. 27 Town of Nanton Town of High River Village of Cayley Village of Blackie	\$ 8,632.00 31,426.00 7,631.00 134.00 4,114.00 8,457.00 850.00		\$ 2,466,250.00 8,978,800.00 2,180,260.00 3,430.00 1,175,430.00 2,416,420.00 161,688.00 242,830.00	5.555555555555555555555555555555555555	
	\$ 61,810.00	931,626	\$17,660,108.00	3.5	8,671
Holden M.H.D. No. 68					
M.D. of Beaver Village of Holden	\$ 2.326.00 2,126.00		\$ 764,640.00 699,185.00	3. 3.	270 320
	\$ 4,452.00	55,697	\$ 1,463,825.00	3.	590
Hughenden M.H.D. No. 51 M.D. of Provost M.D. of Flagstaff Village of Hughenden Village of Czar Village of Amisk	\$ 6,610.16 24.56 636.52 564.80 362.88		\$ 1,652,540.00 6,140.00 159,133.00 141,200.00 90,720.00	4. 4. 4. 4.	
	\$ 8,198.02	658,636	\$ 2,049,733.00	4.	2,165

Contributing Units	Requisition	Acreage	Assessed Value	Mill Rate	Popu- lation
Innisfail M.H.D. No. 16 M.D. of Red Deer No. 55 M.D. of Mountain View No. 49 M.D. of Kneehill No. 48 L.I.D. No. 58 L.I.D. No. 65 Town of Innisfail Village of Bowden	\$ 23.053.00 1,025.00 1,123.00 164.00 461.00 6.474.00 1,295.00 \$ 33,595.00	421,550 21,000 10,576 394 44 453,564	\$ 5,763,310.00 256,420.00 280,978.00 41,080.00 115,290.00 1,618,600.00 323,830.00	4. 4. 4. 4. 4. 4. 4.	12,409 250 184 700 1,606 207 15,456
Irma M.H.D. No. 55 M.D. of Wainwright No. 61 M.D. of Flagstaff No. 62 Village of Irma	323.00 1,872.00		\$ 1,113,145.00 64,780.00 374,350.00	5. 5. 5.	410
	\$ 7,861.00	105,096	\$ 1,572,275.00	<u>5.</u>	1,115
Islay M.H.D. No. 4 M.D. Vermilion River No. 71	\$ 16,000.00 \$ 16,000.00	283,785	\$ 3,359,030.00	4.75	3,515
Lacombe M.H.D. No. 54 M.D. of Lacombe No. 64 M.D. of Camrose No. 63 County of Ponoka No. 3 Town of Lacombe Village of Clive Village of Blackfalds Village of Alix Village of Mirror	\$ 28,982.00 88.00 539.00 15,145.00 763.00 592.00 1,833.00 1,770.00 \$ 49,712.00	426,240 4,480 16,205 640 640 488,205	\$ 7,833,150.00 23,880.00 145,810.00 3,522,240.00 206,273.00 160,066.00 495,420.00 478,462.00 \$12,865,301.00	3.7 3.7 3.7 4.3 3.7 3.7 3.7 3.7 3.7	7,350 50 130 3,000 350 400 600 12,480
Lethbridge M.H.D. No. 65 M.D. of Willow Creek M.D. of Lethbridge M.D. of Cardston M.D. of Forty Mile County of Warner M.D. of Taber County of Vulcan City of Lethbridge Town of Coaldale Village of Nobleford Village of Barons Village of Warner	\$ 616.00 130,480.50 640.14 15,483.38 87,074.60 26,648.60 2,908.25 389,857.32 14,646.10 2,881.95 3,488.18 4,393.60	2,000 573,000 5,064 217,360 654,000 267,102 3,300	\$ 49,280.00 10,438,440.00 51,210.00 1,238,670.00 6,965,968.00 2,131,918.00 232,660.00 31,188,585.00 1,171,688.00 230,555.00 279,054.00 351,488.00	12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5	15 11,000 500 3,470 663 20 30,000 2,300 290 400 445
	\$679,118.62	1,719,826	\$54,329,516.00	12.5	49,153
Little Bow M.H.D. No. 25 M.D. of Lethbridge No. 25 County of Vulcan No. 2 Village of Champion Village of Carmangay	\$ 2,488.00 18,238.00 3,270.00 2,366.00 \$ 26,332.00	196,371	\$ 311,050.00 2,279,860.00 408,850.00 292,110.00 \$ 3,291,870.00	8. 8. 8. 8.	161 1,100 411 295
Lloydminster M.H.D. No. 8 M.D. of Vermilion River Town of Lloydminster Village of Marwayne	\$ 27,000.00 13,000.00 2,000.00 \$ 42,000.00	453,120 400 185 537,982	\$ 8,980,720.00 2,339,720.00 384,000.00 \$11,704,440.00	5. 5. 6. 5.3	4,755 2,531 360 7,646
Macleod M.H.D. No. 48 M.D. of Willow Creek No. 36 M.D. of Pincher Creek No. 9 M.D. of Lethbridge No. 25 Town of Fort Macleod	\$ 17,482.00 607.00 2,515.00 12,192.00 32,796.00	443,003	\$ 3,156,220.00 109,580.00 454,130.00 2,201,100.00 \$ 5,921,030.00	6. 6. 6. 6.	2,000 60 247 2,500 4,806

Contributing Units	Requisition	Acreage	Assessed Value	Mill Rate	Popu- lation
Magrath M.H.D. No. 29					
M.D. of Cardston No. 6 County of Warner No. 5 Town of Magrath	\$ 17,448.52 1,283.16 7,350.82	233,778 29,439 1,300	\$ 2,884,035.00 212,090.00 1,215,000.00	6.05 6.05 6.05	2,800 1,364
	\$ 26,082.50	264,515	4,311,115.00	6.05	4,164
Manning M.H.D. No. 70 L.I.D. No. 138 Town of Manning	\$ 28,917.00 8,027.00		\$ 1,301,810.00 361,328.00	20. 20.	3,457 808
	\$ 36,944.00	261,149	\$ 1,663,138.00	20.	4,265
Mannville M.H.D. No. 1 M.D. of Minburn No. 72	\$ 13,248.00	273,289	\$ 2,208,000.00	6.	1,719
Free Hospitalization	1,040.00 2,298.00 150.00		382,970.00	6.	210
Free Hospitalization M.D. Eagle No. 81 Village of Mannville Village of Minburn	70.00 4,061.00 520.00	1,235 240	11,680.00 676,817.00 136,120.00	6. 6. 6.	20 584 150
	\$ 21,405.00	274,764	\$ 3,415,587.00	6.	2,683
Mayerthorpe M.H.D. No. 38 M.D. of Lac Ste. Anne No. 93 M.D. of Barrhead No. 106 L.I.D. No. 78 L.I.D. No. 109 Village of Mayerthorpe	\$ 43,068.00 110.00 20.00 6,070.00 10,124.00	12,314	\$ 2,153,400.00 5,470.00 980.00 303,535.00 506,185.00	20. 20. 20. 20. 20.	12 554
	\$ 59,392.00	296,353	\$ 2,969,570.00	20.	4,406
Medicine Hat M.H.D. No. 69 M.D. of Forty Mile No. 2 County of Warner L.I.D. No. 11 L.I.D. No. 22 City of Medicine Hat Town of Irvine Town of Redcliff	\$ 51,232.00 80.00 47,601.00 4,505.00 279,091.00 1,927.00 15,497.00	410,000 9,600 904,110 112,230	\$ 4,099,294.00 6,380.00 3,808,764.00 360,437.00 22,331,155.00 154,158.00 1,239,941.00	12.49 12.49 12.49 12.49 12.49 12.49 12.49	1,500 20 4,000 650 22,150 250 1,800
	\$399,933.00	1,525,940	\$32,000,129.00	12.49	30,370
Myrnam M.H.D. No. 23 M.D. of Eagle No. 81 M.D. of St. Paul No. 86 Village of Myrnam	\$ 27,336.00 530.00 7,965.00	166,542 9,708	\$ 1,708,490.00 33,100.00 497,810.00	16. 16. 16.	1,900 70 425
	\$ 35,831.00	176,232	\$ 2,239,400.00	16.	2,395
Olds M.H.D. No. 26 M.D. of Mountain View No. 49 M.D. of Kneehill No. 48 L.I.D. No. 50 Town of Olds Town of Sundre	\$ 34,998.00 5,311.00 31.00 16,268.00 4,461.00 \$ 61,069.00	350,879 37,440 1,281 607 350 390,557	\$ 4,666,531.00 708,100.00 4,110.00 2,169,070.00 594,830.00 \$ 8,142,641.00	7.5 7.5 7.5 7.5 7.5 7.5	5,800 1,000 1,967 900
Oyen M.H.D. No. 35					
M.D. of Acadia Valley No. 52 Special Areas	\$ 2,717.60 19,318.90 5,003.50	55,849 688,657 14,196	\$ 1,090,720.00 1,640,493.00 491,660.00		160 1,666 700
	\$ 27,040.00	744,647	\$ 3,222,873.00	8.4	2,526
Peace River M.H.D. No. 21 M.D. of Peace River No. 135 M.D. of Smoky River L.I.D. No. 131 L.I.D. No. 138 Town of Peace River	3,782.00 370.00 10,508.00 2,331.00 17,463.00	42,800 6,386 200,696 227,605	\$ 472,660.00 46,250.00 1,313,461.00 291,481.00 2,182,880.00	8. 8. 8. 8.	590 90 2,394 1,977
	\$ 34,454.00	477,310	\$ 4,306,732.00	8.	6,041

Contributing Units	Requisition	Acreage	Assessed Value	Mill Rate	Popu- lation
	1404 010101	***************************************	V GAZOIC	10400	144011
Ponoka M.H.D. No. 37 County of Ponoka No. 3 M.D. of Camrose No. 63 Town of Ponoka	\$ 36,931.00 2,570.00 24,890.00	335,759 30,720 1,399	\$ 5,295,145.00 368,470.00 3,568,775.00	7. 7. 7.	5,275 325 3,373
	\$ 64,391.00	367,878	\$ 9,232,390.00	7.	8,973
Provost M.H.D. No. 12					
M.D. of Provost No. 52 M.D. of Wainwright No. 61 Special Areas No. 3 Town of Provost	\$ 30,851.00 2,428.00 876.00 8,554.00	41,168 399	\$ 3,427,880.00 269,730.00 97,315.00 950,490.00	9. 9. 9.	1,098
	\$ 42,709.00	537,449	\$ 4,745,415.00	9.	3,932
Raymond M.H.D. No. 31					
M.D. of Warner County M.D. of Lethbridge M.D. of Cardston Town of Raymond Village of Stirling	\$ 12,720.00 130.00 1,700.00 8,400.00 1,050.00	161,632.3 1,864.6 27,623.8	\$ 2,624,742.00 26,940.00 352,160.00 1,733,132.00 216,570.00	4.85 4.85 4.85 4.85 4.85	2,200 2,400 700
	\$ 24,000.00	191,120.7	\$ 4,953,544.00	4.85	5,300
Red Deer M.H.D. No. 15					
M.D. of Red Deer No. 55 M.D. of Lacombe No. 64 City of Red Deer Town of Sylvan Lake Village of Penhold	\$ 46,897.00 6,388.00 112,683.00 13,685.00 2,329.00	272,549 47,111 2,816 531 640	\$ 4,900,310.00 667,350.00 11,772,586.00 1,429,230.00 242,545.00	9.5 9.5 9.5 9.5 9.5	5,300 1,100 12,800 1,300 260
	\$181,982.00	323,647	\$19,012,021.00	9.5	20,760
Dimbon M H D No 10					
Rimbey M.H.D. No. 52 County of Ponoka No. 3 M.D. of Lacombe No. 64 L.I.D. No. 65 Town of Rimbey	\$ 26,905.00 803.00 514.00 8,547.00		\$ 2,989,518.00 89,330.00 57,190.00 854,720.00	9. 9. 9. 10.	
•	\$ 36,769.00	164,036	\$ 3,990,758.00	9.2	3,875
Rocky Mountain House M.H.D. L.I.D. No. 65 Town of Rocky Mountain House Village of Caroline	\$ 11,901.00 7,336.00 877.00		\$ 1,831,818.00 1,048,500.00 13,560.00	6.5 7. 6.5	320
	\$ 20,114.00	289,273	\$ 1,893,878.00	6.6	5,770
Smally Lake M H D No 79					
Smoky Lake M.H.D. No. 73 M.D. of Smoky Lake No. 89 Village of Smoky Lake Village of Warspite	\$ 18,520.00 3,449.00 1,162.00	271,770	\$ 2,645,675.00 492,670.00 166,010.00	7. 7. 7.	3,840 556 168
	\$ 23,131.00	271,770	\$ 3,304,355.00	7.	4,564
Spirit River M.H.D. No. 60					
M.D. No. 133 L.I.D. No. 132 L.I.D. No. 134 Town of Spirit River Village of Rycroft	\$ 10,280.00 5,594.00 7,478.00 4,211.00 2,606.00	142,165 149,599 252,198	\$ 1,581,585.00 860,643.00 1,150,493.00 647,960.00 401,059.00	6.5 6.5 6.5 6.5	2,075 1,169 2,175 989 574
	\$ 30,169.00	543,962	\$ 4,641,743.00	6.5	6,982
Stettler M.H.D. No. 20 County of Stettler No. 6 M.D. of Paintearth No. 53 M.D. of Starland No. 47 M.D. of Camrose No. 63	\$ 52,259.00 1,342.00 769.00 1,486.00	18,470	\$19,501,690.00 243,880.00 139,850.00 270,090.00	5.5 5.5 5.5 5.5	66
Town of Stettler Village of Big Valley Village of Donalda Village of Gadsby Village of Botha	21,430.00 1,938.00 1,649.00 640.00 598.00		3,896,191.00 352,330.00 299,849.00 116,490.00 108,820.00	5.5 5.5 5.5 5.5 5.5	3,318 464 260 110 100
	\$ 82,111.00	871,614	\$14,929,190.00	5.5	10,869

Contributing Units	Requisition	Acreage	Assessed Value	Mill Rate	Popu- lation
St. Paul M.H.D. No. 36 M.D. of St. Paul M.D. of Eagle M.D. of Bonnyville L.L.D. No. 101 Town of St. Paul	35.56 1,338.34 81.16		\$ 3,016,495.00 8,640.00 23,850.90 202.90 16,060.50	5. 6. 6. 6.	7,000 10 1,800 160 2,100
	\$ 20,159.07	369,139	\$ 3,035,230.00	6.	11,070
M.D. of Taber No. 14 M.D. of Forty Mile No. 2 M.D. of Lethbridge No. 25 County of Warner No. 5 Town of Taber Village of Grassy Lake Village of Vauxhall	1,173.00 22.00 805.00 68.557.00		\$ 5,679,855.00 106,700.00 2,070.00 73,190.00 6,232,510.00 259,416.00 588,950.00	11. 11. 11. 11. 11. 11.	3,600 16 12 3,800 200 450
	\$142,366.00	431,059	\$12,942,691.00	11.	8,078
M.D. of Beaver No. 47 M.D. of Strathcona No. 83 M.D. of Camrose No. 68 Town of Toffeld Village of Ryley	\$ 20,741.20 1,756.63 1,580.00 6,176.00 3,784.56	186,632 26,500	\$ 2,592,650.00 204,579.00 197,500.00 772,000.00 473,070.00	8. 8. 8. 8.	1,950 400 250 771 490
	\$ 34,038.39	213,132	\$ 4,239,799.00	8.	3,861
M.D. of Kneehill No. 48 M.D. of Mountain View No. 49 Town of Three Hills	\$ 26,661.00 349.00 8,736.00	249,000 211	\$ 3,808,784.00 49,850.00 1,248,030.00	7. 7. 7.	1,700 1,200
	\$ 35,746.00	249,211	\$ 5,106,664.00	7.	2,900
Trochu M.H.D. No. 56 M.D. of Kneehill No. 48 Village of Trochu	\$ 9,046.00 2,954.00	159,000 85	\$ 2,258,358.00 726,315.00	4. 4.	1,400 700
	\$ 12,000.00	159,085	\$ 2,984,673.00	4.	2,100
Turner Valley M.H.D. No. 66 M.D. of Foothills No. 31 Town of Black Diamond Village of Turner Valley	\$ 22,665.00 3,389.00 1,926.00		\$ 4,120,000.00 616,195.00 350,335.00	5.5 5.5 5.5	1,200 984 673
	\$ 27,980.00	663,600	\$ 5,087,430.00	5.5	2,857
Two Hills M.H.D. No. 42 M.D. of Eagle No. 81 M.D. of Minburn No. 72 M.D. of St. Paul No. 86 Town of Two Hills	\$ 24,462.00 697.00 130.00 7,870.00	222,563 7,896 2,106 126	\$ 2,446,165.00 69,750.00 13,060.00 787,010.00	10. 10. 10. 10.	3,480 122 35 782
	\$ 32,500.00	232,691	\$ 3,315,985.00	10.	4,419
Vegreville M.H.D. No. 34 M.D. of Beaver No. 73 M.D. of Eagle No. 81 M.D. of Minburn No. 72 M.D. of Lamont Town of Vegreville Village of Lavoy	\$ 5,736.00 2,160.00 16,952.00 345.00 13,786.00 604.00 \$ 39,583.00	97,740 33,470 206,624 5,121 1,280 40 344,275	\$ 1,274,790.00 479,955.00 3,767,145.00 76,715.00 3,063,664.00 134,135.00 \$ 8,796,404.00	4.5 4.5 4.5 4.5 4.5 4.5	1,100 360 2,794 90 2,694 124
Vermilion M.H.D. No. 2					
M.D. of Eagle M.D. of Minburn M.D. of Vermilion River Town of Vermilion M.D. of Wainwright Village of Derwent	\$ 5,196.00 7,580.00 22,874.00 20,477.00 21.00 2,067.00	64,226 121,655 232,429 1,222 638 545	\$ 663,600.00 968,100.00 2,722,920.00 2,502,185.00 2,800.00 264,000.00	7.83 7.83 7.83 8.3 7.83 7.83	740 800 3,000 2,408
	\$ 58,215.00	420,224	\$ 7,123,605.00	7.8	7,321

Contributing Units	Requisition	Acreage	Assessed Value	Mill Rate	Popu- lation
Viking M.H.D. No. 10					
M.D. of Beaver M.D. of Minburn M.D. of Flagstaff M.D. of Wainwright Town of Viking	\$ 32,459.00 2,831.00 1,073.00 2,761.00 8,376.00	386,776 36,136 15,360 22,872 262	\$ 3,487,180.00 304,230.00 115,290.00 296,722.00 899,986.00	9.3 9.3 9.3 9.3 9.3	2,900
	\$ 47,500.00	461,406	\$ 5,103,408.00	9.3	4,475
Vulcan M.H.D. No. 19					
County of Vulcan No. 2 M.D. of Willow Creek Town of Vulcan	\$ 35,302.12 62.48 5,464.50		\$ 8,825,530.00 15,620.00 1,366,130.00	4. 4. 4.	
	\$ 40,829.12	605,050	\$10,207,280.00	4.	5,095
Wainwright M.H.D. No. 17					
M.D. of Wainwright M.D. of Provost M.D. of Vermilion River M.D. of Minburn Town of Wainwright Village of Edgerton Village of Chauvin	\$ 27,773.70 258.75 81.25 81.35 11,953.40 1,950.25 2,019.80	749,427 8,000 2,225 2,300	\$ 5,049,763.00 47,040.00 14,770.00 14,790.00 2,390,683.00 354,590.00 367,235.00	5.5 5.5 5.5 5.5 5. 5.5 5.5	6,500 40 11 11 2,635 292 348
	\$ 44,118.00	761,752	\$ 8,238,871.00	5.5	9,050
Willingdon M.H.D. No. 64					
M.D. of Lamont M.D. of Eagle Village of Willingdon Village of Hairy Hill	\$ 732.00 5,438.00 1,628.00 724.00	11,675 119,140	\$ 209,400.00 1,553,840.00 465,190.00 207,120.00	3.5 3.5 3.5 3.5	170 1,770 500 250
	\$ 8,522.00	130,815	\$ 2,435,550.00	3.5	2,690

TABLE 15

HOSPITAL DAYS AND PATIENTS UNDER CARE, 1947-1957

	1947	1948	1.949	1950	1951	1952	1953	1954	1955	1956	1957
ADULTS AND CHILDREN											
Days (In 1,000's) Cases (In 1,000's) Average Length of Stay Average in Hospital Daily Occupancy NEWBORN	139 9.1 3,773	9.8 3.858	159 9.2 3.936	163 8.8 4.022	9.0 4.269	186 9.0 4.422	199 8.8 4.744	207 8.9 5.001	214 8.9 5.166	222 8.9 5.259	233 8.7 5.449
Cases (In 1,000's)	23 9.7 373	9.2	211 24 9.1 388 97.2	216 25 8.9 329 97.9	26 8.6 363	28 8.5 367	247 31 8.2 447 96.0	259 33 8.0 423 96.4	34 7.9 409	259 34 7.7 389 96.2	261 35 7.6 386 96.4

TABLE 16

HOSPITALIZATION ADMISSIONS, DISCHARGES AND DAYS PER 1,000 POPULATION, 1947-1957

(EXCLUDING NEWBORN)

	Census or Inter-Censal	Cases Pe Popula		Days Per 1.000 Population			
ear Estimate of Alberta Population		Admitted	Discharged	For Discharged Cases	Total Days of Care During Year		
1947	822,000	165	165	1,680	1,710		
1948	846,000	171	170	1,666	1,665		
1949	871,000	179	179	1,642	1,650		
1950	895,000	178	178	1,623	1,640		
1951	939,501*	178	177	1,634	1,659		
1952	970,000	188	188	1,707	1,664		
1953	1,002,000	194	194	1,712	1,728		
1954	1,039,000	195	195	1,743	1,757		
1955	1,066,000	197	197	1,753	1,769		
1956	1,123,116*	193	193	1,714	1,709		
1957	1,160,000	197	197	1,711	1,714		

^{*}Federal census of Alberta. The inter-censal estimates are by the Dominion Bureau of Statistics.

TABLE 17—MONTHLY MOVEMENT OF PATIENTS, 1957 (Excluding D.V.A., Division, University Hospital)

Year	4,318 227,015 231,333 223,663 4,586	38 6 38 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
December -	5,149 18,013 23,162 18,272 304 4,586	66.3 2,782 2,445 2,445 3,38 630 30
долешрет.	5,702 18,229 23,931 18,427 355 5,149	22, 733 23,738 23,738 23,738 663 33
TedotoO	5.338 20.459 25.797 19.670 5.702	2.552 2.552 3.725 2.945 47 733
September	4.466 18.527 22.993 17.354 17.354 5.338	2, 694 2, 8672 3, 865 773 773
isuguĀ	4,892 18,727 23,619 18,870 2,83 4,466	2.934 3.712 2.970 2.970 694
yluty	4,587 19,106 23,693 18,511 220 4,892	671 3.083 3.754 2.946 778
June	5,292 18,177 23,469 18,608 2,469 4,587	733 2,908 3,641 2,930 671
ХвМ	5,477 19,219 24,696 19,105 19,105 5,299	3,048 3,048 3,802 3,032 3,7 733
linqA	5,454 19,805 25,259 19,481 3311 5,477	2,896 2,896 2,803 2,803 7,54 7,54
Матећ	5,627 19,788 25,415 19,664 297 5,454	2,914 3,625 2,876 700 700
February	5,711 17,493 23,204 17,323 17,323 5,627	2,534 2,534 2,499 2,499 711
Januaty	4,318 19,472 23,790 17,778 5,711	2,640 2,640 2,479 44 710
	ADULTS AND CHILDREN In at the End	NEWBORN In at the Beginning Live Births Total Under Care Discharges Deaths In at the End

TABLE 18—PATIENT DAYS BY HOSPITAL GROUP AND MONTH, 1957
(Excluding D.V.A., Division, University Hospital)

Year	915,021 298,512 510,109 183,873 24,402	1,917	135,431 31,738 67,180 23,583 3,026	260,958
	22.22.22	1,931,917	# # # # # # # # # # # # # # # # # # #	260
December .	73,868 23,339 40,353 14,698 2,029	154,287	10,905 2,339 4,957 2,132 196	20,529
Мочетрег	78,735 25,610 44,564 15,718 2,073	166,700	11,053 2,696 5,152 1,803	21,012
TədotəO	79,825 26,051 47,002 17,490 2,419	172,787	12,017 2,709 5,735 1,846	22,600
September	73.213 22,709 39,158 13,938 1,930	150,948	11, 497 2,824 5,685 2,066 2,066	22,318
ţsn3n∀	73,715 22,329 39,640 14,277 1,902	151,863	11,355 2,789 6,133 1,914	22,357
July	75,277 22,572 39,508 13,920 2,213	153,490	11,892 2,682 5,887 2,020 351	22,832
June	74.184 24,790 39,406 14,232 1,821	154,433	11,224 2,580 2,580 1,860 1,860	21,600
May	78.163 25,891 41,594 15,356 1,887	162,891	11,758 2,754 6,189 2,163 220	23,084
lingA	76,735 26,026 43,522 15,749 1,986	164,018	11,358 2,702 5,510 2,224 2,224	22,018
March	80,226 27,302 47,425 17,081 2,099	174,133	11,580 2,571 5,636 2,108	22,164
February	73,145 25,102 42,024 15,062 1,991	157,324	10,267 2,548 4,974 1,719 223	19,731
January	77,935 26,791 45,913 16,352 2,052	169,043	10,525 2,544 5,604 1,728 312	20,713
Hospital Group	ADULTS AND CHILDREN Group A Group B Group C Group C	Provincial Total	NEWBORN Group A Group B Group C Group D Group D	Provincial Total

TABLE 19

DISTRIBUTION OF CASES AND PATIENT DAYS OF DISCHARGED PATIENTS BY LENGTH OF STAY IN DAYS—1957

(Excluding D.V.A. Division, University Hospital, and Newborn)

Length of Stay	CASE	S	DAYS	3	CUMULA CASE		CUMULA: DAYS	
iii Days	Number	%	Number	%	Number	%	Number	%
1 - 10 11 - 20 21 - 30 31 - 60 61 - 90 91 +	182,682 29,369 7,520 5,209 1,026 941	80.6 13.0 3.3 2.3 0.4 0.4	875,844 415,546 185,013 211,479 74,565 173,260	45.2 21.5 9.6 10.9 3.8 9.0	212,051 219,571 224,780 225,806	80.6 93.6 96.9 99.2 99.6 100.0	875,844 1,291,390 1,476,403 1,687,882 1,762,447 1,935,707	66.7 76.3

TABLE 20 HOSPITALIZATION OF PATIENTS BY AGE AND LENGTH OF STAY

	ENT				. L	ENGTH	OF ST	AY			
Α	GE	1	2	3	4-10	11-20	21-30	31-60	61-90	91+	Tota
0 - 1 Cases	*******	595	621	901	4,350			183	36	16	8,26
Days		595	1,242	2,703	27,673	17,691	7,445	7,445	2,621	2,585	70,00
Cases Days		2,045 2,045	3,825 7,650	2,225 6,675	7,420 44,582		269 6,613	216 8,921	32 2,273	43 10,116	17,36- 106,76
	************	1,991 1,991	5,378 10,756	2,406 7,218	5,240 31,283	835 11,781	185 4,488	139 5,760	56 4,043	58 14,457	16,28 91,77
Cases Days 20 - 29		2,796 2,796	3,786 7,572	3,207 9,621	11,544 72,114			215 8,842	39 2,917	92 21,929	23,69 157,39
Cases Days 30 - 39		3,693 3,693	4,507 9,014	4,169 12,507	30,449 200,830	3,351 45,078	532 13,040	280 11,306	73 5,357	68 17,234	47,12 318,05
Cases Days 40 - 44		2,774 2,774	3,326 6,652	3,314 9,942	19,291 128,089	3,724 51,208	665 16,272	380 15,189	62 4,446	62 13,125	33,59 247,69
Cases Days 45 - 49		1,080 1,080	1,291 2,582	1,303 3,909		1,863 26,266		235 9,451	36 2,634	42 6,632	11,68 97,33
Cases Days 50 - 54		880 880	1,065 2,130	1,116 3,348	4,482 28,971	1,809 25,605	439 10,801	280 11,091	31 2,180	28 5,763	10,13 90,76
Cases Days		690 690	895 1,790	992 2,976	4,081 26,324	1,819 25,870	471 11,581	261 10,243	48 3,509	37 5,780	9,29 88,74
Cases Days		563 563	708 1,416	756 2,268	3,712 24,522	1,700 24,323	489 12,086	367 14,729	65 4,725	44 6,765	8,40 91,39
Cases Days 55 - 69		487 487	577 1,154	677 2,031	3,592 23,461	1,836 26,548	580 14,212	423 17,232	83 6,132	48 6,596	8,30 97,87
Cases Days 70 - 74		538 538	626 1,252	627 1,881	3,881 26,075	2,367 34,409	783 19,379	586 23,835	109 7,812	68 11,015	9,58 126,16
Cases Days		457 457	492 984	553 1,659	3,913 26,503	2,318 33,791	830 20,462	555 22,938	113 8,229	104 14,767	9,33 129,76
75 and Cases Days		596 596	622 1,244	713 2,139	5,139 35,128	3,477 51,098	1,258 31,009	1,084 44,286	242 17,600	228 35,959	13,36 219,11
No Age Cases Days		43 43	33 66	25 75	167 1,060	33 491	12 288	5 211	1 87	3 537	32 2,85
l'otal											
Cases		19,228	27,752	22,984	112,718	29,369	7,520	5,209	1,026	941	226,74
Days	************	19,228	55,504	68,952	732,160	415,546	185,013	211,479	74,565	173,260	1,935,70

TABLE 21

PERCENTAGE DISTRIBUTION OF CASES AND DAYS OF DISCHARGED PATIENTS AND THEIR AVERAGE LENGTH OF STAY BY AGE GROUP AND SEX—1957 (Excluding D.V.A. Division, University Hospital, and Newborn)

	0 - 4 11.3 6.6 5 - 9 7.2 3.8 0 - 19 10.4 4.2	ases	Per	cent of	Days	Average Length of Stay			
AGE GROUP	Total	Male	Female	Total	Male	Female	Total	Male	Female
5 - 9	7.2	3.8	4.7 3.4 6.2 16.5 10.9 5.9 4.1 3.8 4.5 0.05	9.1 4.8 8.1 16.4 12.8 9.7 9.3 11.6 18.0 0.2	5.1 2.5 3.4 4.0 3.9 4.0 4.7 6.0 9.5 0.06	4.0 2.3 4.7 12.4 8.9 5.7 4.6 5.6 8.5 0.1	6.9 5.6 6.6 6.7 7.4 8.6 10.1 12.5 15.4 8.9	6.8 5.6 7.0 8.0 8.5 9.1 10.6 12.4 14.8	7.0 5.6 6.4 6.4 7.0 8.3 9.8 12.6 16.1 7.7

TABLE 22
DISCHARGED PATIENTS AND THEIR AVERAGE LENGTH OF STAY BY AGE GROUPS, 1951-1957
(Excluding D.V.A. Division, University Hospital, and Newborn)

	1951	*	1952	*	195	3	195	4	1958	5	195	6	195′	7
AGE GROUP	Patients Discharged or Deceased	Average Length of Stay	Patients Discharged or Deceased	Average Length of Stay	Patients Discharged or Deceased	Average Length of Stay	Patients Discharged or Deceased	Average Length of Stay	Patients Discharged or Deceased	Average Length of Stay	Patients Discharged or Deceased	Average Length of Stay	Patients Discharged or Deceased	Average Length of Stay
Less than 1 1 - 4 5 - 9 10 - 19 20 - 29 30 - 39 40 - 44 45 - 49 50 - 54 55 - 59 60 - 64 65 - 69 70 - 74 75 and over Not Stated	17,118 11,887 17,805 38,355 25,251 8,335 7,345 6,825 6,106 6,481 6,154 5,925 7,299 80	5.4 6.7 7.0 7.7 8.5 9.7 10.7 11.0 12.9 13.7 15.3	18,148 12,598 19,700 41,141 27,902 9,113 8,003 7,561 6,511 6,908 7,124 6,772 8,214 64	5.5 6.8 7.4 8.5 9.0 10.0 10.9 12.8 13.4 14.7	19,963 13,996 20,246 44,210 29,881 9,487 8,546 8,032 6,774 7,297 7,841 7,411 9,318 154	9.7 11.1 12.5 13.5 15.3 16.8	13,682 20,680 45,539 31,041 10,247 8,844	6.0 6.9 7.0 7.5 8.1 9.1 10.1 11.3 12.5 13.5 15.1	21,885 14,019 20,623 46,089 32,372 10,766 9,250 8,553 7,674 9,114 8,364 11,859 233	6.9 7.4 8.3 9.1 10.0 11.0 11.9 13.3 15.1 17.8	21,356 46.261 32,724 11,112 9,726 8,752 7,918 7,929 9,013 9,110 12,667	5.6 6.9 6.9 7.4 8.1 9.1 9.9 11.0 12.2 13.2	16,288 23,697 47,122 33,598 11,685 10,130 9,293 8,404 8,304 9,584 9,334	5.6 6.6 6.7 7.4 8.3 9.0 9.5 10.9 11.8 13.2
Total	164,966	8.6	 179,759 	8.4	 193, 1 56	 8.7 	200,599	8.8	208,155	8.8	215,425	8.8	226,747	8.5

^{*}Does not include Polio

TABLE 23—HOSPITALIZATION BY TYPE OF PATIENTS AND DAYS OF STAY, 1957 (Excluding D.V.A., Division, University Hospital and Newborn)

PATIENT TYPE				LE	LENGTH OF	STAY IN D	DAYS			
	1	2	က	4-10	11-20	21-30	31-60	06-19	91 +	Total
STANDARD WARD Cases Days STANDARD WARD AND SPECTAL SERVICES	ນນ	14	122	115	121	******				33
	11,439	18,086 36,172	14,418	50,395	16,075	4,089	2,800	462 33,489	364 55,404	118,128 938,545
Cases Days MATERNITY	6,012 6,012	7,509	6,267	19,393 120,384	5,606	1,396	930 37,911	227 16,479	35,795	47,511
Cases Days OI.D AGE PENSTON	15	88	129 387	29,903 209,148	1,649	53 1,255	02 N	1 9		31,804 231,789
Cases Days MOTHER'S ATLOWANCE	599	1,386	2,634	6,275	4,096 60,110	1,468 36,153	1,087	231 16,898	195 25,922	15,522
Cases Days BIIND PRINCION	86	182 364	148	3,085	163 2,272	630	14 574	302	209	1,138
Cases Days WIDOW'S ALLOWANCE	17	84	69	1,014	1,424	35	15 613	438	1,492	376 5,976
Cases Days	10	14 28	72	1,006	1,256	88	943	401	3 466	346
Cases Cases TINDIA NA	10	222	421	373	1,213	88	2,942	3,708	162 45,947	468 55,033
Cases Days OTHERST	186	223 446	290 870	1,594	381	2,257	2,919	490	3,220	2,853
Cases Days	797	924 1,848	756 2,268	3,995	903	226 5,503	141 5,825	2,095	4,805	7,798
Cases Days	40	84.88	132	291	3,335	1,772	1,711	201		9,334
TOTAL Cases Days	19,228	27,752	22,984	112,718	29,369 415,546	7,520 185,013	5,209	1,026	941	226,747

*Self-pay and insured primarily by other than Provincial Government Plan. †Non-residents, boarders and recipients of Veterans' Allowance.

TABLE 24

PERCENTAGE DISTRIBUTION OF PATIENTS ACCORDING TO TYPE OF BENEFITS, 1957

Provincial-Municipal Hospitalization Plan (a) Standard Ward Care Only (b) Standard Ward and Special Services	0.01 52.1	52.1
Maternity Hospitalization Benefits		14.0
Social Service Recipients Hospitalization Benefits	****	7.7
(a) Old Age Pension Group	6.8	
(b) Mothers' Allowance	0.5	****
(c) Blind Pension	0.2	
(d) Widows' Allowance	0.2	****
Polio and Orthopaedic Benefits	~	0.2
Psychiatric (in General Hospitals)	****	0.2
		21.0
Residents not purchasing contracts	****	21.0
Indians (in General Hospitals)	• • • • • • • • • • • • • • • • • • • •	1.3
Others*		3.4
TOTAL		100.0

^{*}Non-residents, boarders and recipients of Veterans' Allowance.

TABLE 25 AVERAGE LENGTH OF STAY IN HOSPITAL OF DISCHARGED PATIENTS BY TYPE OF BENEFIT, 1951-1957

	1951	1952	1953	1954	1955	1956	1957
Type of Benefits		AVE	RAGE L	ENGTH	OF STA	Y IN D	AYS
PROVINCIAL-MUNICIPAL Hospitalization Benefits (a) Standard Ward Only (b) Standard Ward and Special Services Maternity Hospitalization Old Age Benefits Mothers' Allowance Blind Pension Widows' Allowance Psychiatric Indian Affairs General† Others**	7.6 8.4 16.2 7.5 14.8 * 8.0 12.1	7.6 8.2 15.9 6.9 13.5 10.5 * 7.8 10.7	7.6 8.1 7.9 16.2 7.6 14.4 12.2 * 11.7 7.6 9.2	7.9 7.8 7.8 15.7 7.0 15.8 11.9 10.8 8.0 9.0	8.2 7.9 7.6 16.4 7.1 14.8 11.4 12.3 13.4 7.7 9.1	7.9 7.5 15.4 6.9 17.1 12.5 10.7 10.6 7.9 8.6	3.5 7.9 7.3 14.9 7.0 15.9 14.2 12.1 9.1 7.8

[†]Self-pay and insured primarily by other than Provincial Government plans.
**Excluding Polio and Orthopaedic patients; it includes non-residents, boarders and recipients of Veterans' Allowance.
*Not Available

TABLE 26 UTILIZATION OF HOSPITAL SERVICES UNDER THE PROVINCIAL MUNICIPAL HOSPITALIZATION PROGRAM, 1951-1957

Year	Disch	Patients narged Died	Disch	ients narged Died	Aver Days Sta	of	Hos	Total spital ays
1951 1952 1953		357,321 500,006 660,468		46,779 65,862 85,526		7.6 7.6 7.8		20.0 31.4 39.3
Standard Ward Care Complete Care*	553,666		72,372 13,154		7.6 8.1	ĺ	33.0 6.3	
Standard Ward Care		721,566	44,817 47,444	92,261	7.9 7.8	7.8	20.1 20.8	40.9
1955 Standard Ward Care Complete Care	193,093 598,674	791,767	23,426 76,035	99,461	8.2 7.9	8.0	10.6 32.7	43.3
1956 Standard Ward Care	1,338	849,283	170	107,054	7.9	7.9	0.1	45.1
Complete Care	847,945 117	938,662	106,884	118,161	7.9	7.9	45.0	52.1
Complete Care	938,545		118,128		7.9		52.1	

^{*}Six months only. Special Services benefits were added to the Provincial Municipal Hospitalization Program effective July 1st, 1953.

TABLE 27

NUMBER OF SOCIAL SERVICE RECIPIENTS AS AT DECEMBER 31, 1957

	Recipients	Spouses	Dependents and Children	Total
Old Age Security	19,514 5,327	2,150 1,093	346 326	22,010 6,746
Hospital Treatment Services	524 399	117	140	524 656
Mothers' Allowance	1,842 783	******	4,402 6	6,244 789
TOTAL	28,389	3,360	5,220	36,969

TABLE 28

HOSPITAL UTILIZATION OF SOCIAL SERVICE RECIPIENTS AND THEIR AVERAGE LENGTH OF STAY BY GROUP, 1952-1957

ear	Average Eligible	Number Hospitalized	Number Hospitalized as % of Eligible	Average Stay
		TO	TAL	
952		12,100	39.3	15.2
953		13,921	42.5	15.5
)54		15,087	44.7	15.0
55		16,418	46.1	15.6
56		17,119	46.9	14.8
57	36,620	17,382	47.5	14.4
		OLD AC	E GROUP	
52		10,869	43.7	15.9
53		12,468	47.3	16.2
54		13,410	49.7	15.7
55		14,640	51.7	16.4
56	28,974	15,399	53.2	15.4
57		15,522	53.5	14.9
		MOTHERS'	ALLOWANCE	
52	4,981	921	18.5	6.9
53	5,189	963	18.6	7.6
54	5,497	1.061	19.3	7.0
55	5.954	1.126	18.9	7.1
56	6,141	1.117	18.2	6.9
57	6,172	1,138	18.4	7.0
		BLIND	PENSION	
52	750	273	36.4	13.5
53	645	284	44.0	14.4
54		293	48.9	15.8
55	623	315	50.6	14.8
56	622	297	47.8	17.1
57		376	58.2	15.9
		WIDOWS'	ALLOWANCE	
52	188	37	19.7	10.5
53	575	206	35.8	12.2
54		323	47.4	11.9
55		337	45.1	11.4
56		306	38.4	12.5
57		346	44.9	14.2

DIVISION OF HOSPITAL AND MEDICAL SERVICES

TABLE 29 — PATIENT DAYS AND OCCUPANCY BY HOSPITAL 1957

		осспь⊌ис	73.6 68.7 72.1 65.6 71.0	54.6 43.9 42.0 65.7 56.9	57.4 80.5 87.9 49.8	64.9 75.8 67.0 84.0 51.0	81.5 48.7 65.9 114.5 99.0	889.430.6 889.430.6
	F PATIENTS DECEASED	fatoT	0.7.7.90 80.80.60	6.0 6.8 8.8 7.0 7.0	7.1 8.6 11.4 8.5 128.5	8,7,8,7,8 12,8,0,8,1	70.80.7.7.7. 4.88.60.4.	7.00 F.00 W
	STAY OF	Демроци	7.5	7.7.6.6.5	6.3	00 00 12 12 12 12 12 12 12 12 12 12 12 12 12	88.57 7.0 7.1 6.0	9.8 6.6 6.6
	AVERAGE STAY O DISCHARGED OR	Adults and Children	7.7.7 7.7.7 4.7.9	6.7 7.0 7.0 7.0	7.0 9.2 11.4 8.7 128.5	7.7.8.7.8. 7.7.8.7.8.0.	7.88.7. 6.09.09.4.09.4.09	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00
	S OF PATIENTS OR DECEASED	latoT	13,315 10,171 16,998 6,800 5,837	3,526 3,940 11,864 3,417	15,493 221,897 5,740 123,711 30,587	7,184 31,143 3,420 8,583 2,208	8,163 1,883 11,572 6,174 6,027	2,485 8,133 2,485
PATIENT DAYS	DAYS OF P	Иемроги	1,455 846 1,476 643 854	370 561 1,012 266 1,232	1,916 29,408 16,564	3,654 3,765 1,148 93	750 235 1,341 673	645 585 516 191
PA	PATIENT DAYS DURING 1957 PATIENT DAY	Adults and Children	11,860 9,325 15,522 6,157 4,983	3,156 3,379 10,852 3,151 10,613	13,577 192,489 5,740 107,147 30,587	3,530 27,378 3,075 7,435 2,115	7,413 1,648 10,231 5,501 5,253	3,656 7,406 2,294 2,294
		fatoT	12,711 11,376 17,269 6,858 6,023	3,564 3,927 12,020 3,381 12,043	15,331 221,205 5,692 121,637 28,330	30,850 30,850 3,280 8,498 2,696	8,189 11,443 6,104 6,187	4,690 5,882 8,044 3,180
		Меwbогл	1,430 842 1,474 635 838	378 562 973 265 1,239	1,931	3,683 3,742 345 1,142	748 235 1,345 670 769	624 523 191 205
	PATIENT	Adults and Children	11,281 10,534 15,795 6,223 5,185	3,186 3,365 11,047 3,116 10,804	13,400 191,763 5,692 105,193 28,330	3,556 27,108 2,935 7,356 2,604	7,441 1,601 10,098 5,434 5,418	2,987 2,989 2,989 2,989
		HOSPITAL	Athabasca Municipal Banff Mineral Springs Barrhead St. Joseph's Bassano Municipal Beaverlodge Municipal	Bentley Municipal Berwyn Municipal Blairmore-Crows Nest Pass Municipal Bonnyville, Katherine H. Prittie Bonnyville St. Louis	Brooks Municipal Calgary General Calgary General Psychiatric Calgary Holy Cross Calgary, Alberta Red Cross	Calgary, Salvation Army Grace Camrose, St. Mary's Campore Cardston Municipal Cardston Municipal	Castor, Our Lady of the Rosary Cereal Municipal Caresholm Municipal Coaldale Community Cold Lake, John Neil	Consort Municipal Devonation Municipal Daysland, Providence Demnarals, St. Martin's Devon Civic

25.8 25.8 80.5 7.4.0 90.7	84.7 90.6 81.1	98.3.4 83.7.7 95.2	126.9 56.6 87.3 59.8 117.9	93.4 23.4 23.8 123.8	83.2 77.6 70.0 55.6 83.1	78.8 80.3 64.1 79.9 82.6	95.7 61.0 76.1
8.1 9.8 16.1 199.5	8.8 8.7 11.9 25.22 88.3 12.4	4.0.7.2 7.7.2 7.4.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7	7.6 11.2 6.8 5.2	6.7 5.44 10.2 7.6	4.7. 6.7.7 6.6	7.7. 7.2. 9.9. 9.9.	8.6.8 8.1.8 6.3.4 0.7.0
19.4	8.7.7	0.0.0.0.8 0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	7.7 7.9 7.6 10.2	0.00 0.00 0.00 0.00 0.00	6.8 10.8 9.8 9.8	F.F.F.80.80 80.80.24	88.7 7.00.0 7.00
8.3 10.2 12.9 8.9 199.5	88.27.1.3.6 27.2.3.6 88.3.2.2.3.6 12.4.3.3.6	07.80.80 80.004	7.6 11.6 6.6 1.3	6.8 10.23 7.8	7.00.87.0 0.00.74	0.000.00	10.1
9,387 22,955 6,187 4,299 133,685 11,371	128,890 225,317 2,252 187,426 49,511 11,925 4,575	11,130 18,327 3,156 3,479 12,195	7,317 4,512 11,722 9,303 3,792	25,187 1,721 13,915 7,234 20,758	15,097 9,364 3,395 6,552 9,252	18,045 16,787 20,201 63,197 58,372	16,810 20,236 6,153 5,387 4,353
866 1,945 1,945 2,545 16,278	17,588 39,355 16,250	2,056 1,057 395 615 1,344	747 498 683 634 373	3,186 2221 1,663 506 2,357	1,677 1,158 1,197 1,116	1,613 2,168 981 7,433 3,853	1,759 2,076 399 1,004 522
8,521 21,010 5,657 1,754 117,407	111,302 185,962 2,252 171,176 49,511 11,925 4,575	9,074 17,270 2,761 2,864 10,851	6,570 4,014 11,039 8,669 3,419	22,001 1,500 12,252 6,728 18,401	13,420 8,206 3,301 5,355 8,136	16,432 14,619 19,220 55,764 54,519	15,051 18,160 5,754 4,383 3,831
9,668 22,539 6,331 4,330 133,967 5,252	128,974 227,591 2,166 185,965 56,980 13,411 4,591	11,113 18,215 3,177 3,636 12,453	7,234 4,855 10,922 9,363 3,824	26,346 1,804 13,905 7,325 20,912	15,019 9,385 9,416 6,493 9,307	17,885 16,819 22,312 63,482 58,412	16,644 20,575 5,294 5,464 4,393
2,008 2,008 2,567 16,401	17,657 39,258 16,229	2,081 1,058 391 631 1,331	751 514 722 634 382	3,229 220 1,666 507 2,382	1,650 1,170 92 1,221 1,121	1,493 2,167 994 7,483 3,873	1,745 2,063 397 1,021 527
8,744 20,531 5,790 1,763 117,566 5,252	111,317 188,333 2,166 169,736 56,980 13,411 4,591	9,032 17,157 2,786 3,005 11,122	6,483 4,341 10,200 8,729 3,442	23,117 1,584 12,239 6,818 18,530	13,369 8,215 3,324 5,272 8,186	16,392 14,652 21,318 55,999 54,539	14,899 18,512 4,897 4,443 3,866
Didsbury Municipal Drumheller Municipal Eckville Municipal Edmonton, Beutah Home Edmonton General (a) Pollo*	Edmonton Misericordia Edmonton Royal Alexandra (a) Isolation** Edmonton University (a) D.V.A. (b) Polio (c) Psychiatric	Edson, St. John's Elk Point Municipal Elnora Municipal Empress Municipal Fairview Municipal	Fort Macleod Municipal Fort McMurray, St. Gabriel's Fort Vermilion, St. Theresa Glahad, St. Joseph's Glendon Municipal	Grande Prairie Municipal (a) Hythe Sub-Division Hanna Municipal Hardisty, St. Anne's High Prairie, Providence	High River Municipal Innisfall Municipal Jasay Municipal Jasper, Secon Killam General	Lac La Biche, St. Catherne's Lacombe Municipal Lamont, Archer Memorial Lethbridge Municipal Lethbridge, St. Michael's General	Lloydminster McLennan, Sacred Heart Magrath Municipal Manning Municipal Mannville Municipal

TABLE 29—PATIENT DAYS AND OCCUPANCY BY HOSPITAL, 1957 (Continued)

	PATIENT	HOSPITAL Adults and Children	Mayerthorpe Municipal 7,001 Medicine Hat Municipal 40,430 Mercoal Municipal 2,204 Mundare General 5,342 Myrnam Municipal 4,334	Olds Municipal 8.861 Oyen Municipal 2,690 Peace River Municipal 13.843 Phrober Creek, St. Vincent's 10,211 Ponoka Municipal 10,211	Provost Municipal 5,152 Radway, St. Joseph's 4,608 Raymond Municipal 3,824 Red Deer Municipal 22,829 Rimbey Municipal 23,829	Rocky Mountain House Municipal 7,842 Smoky Lake Municipal 2,856 Spirit River, Holy Cross 14,981 Settler Municipal 16,984 St. Paul, St. Theresa 16,984	Taber Municipal 18,010 Three Hills Municipal 5,662 Trochied Municipal 8,074 Trochu St. Mary's 5,188 Tuner Valley Municipal 6,651	Two Hills Municipal 8.284 Vegreville, St. Joseph's General 20.357 Vermino Municipal	
	DAYS	Иемрогл	11,057 80 6,282 94 272 272 273 375	11,432 90 536 13 1,871 1,442 1,391	646 188 585 14 604 11,285	1,122 56 66 11,062 88 2,007 2,585	2, 711 2, 958 4, 811 86 550 1 431	777 1,539	
d.	DURING 1957 PATTENT DAYS DISCHARGED O	ING 1957	latoT	8,058 46,712 2,476 5,621 4,709	10,293 3,226 15,714 11,653 12,308	5,798 5,193 4,438 35,716 10,717	8,964 16,043 18,995 18,995	20,721 6,620 8,885 5,736 7,082	9,055
		Adults and Children	7,071 40,641 2,140 5,304 4,567	8,947 2,705 13,705 9,786 10,840	5,256 4,634 3,786 29,573 9,344	7,854 2,844 14,808 17,115 16,340	17,712 5,580 8,148 4,930 6,787	8,212	
PATIENT DAYS	RGED OR D	Иемроги	1,069 6,347 287 280 387	1,435 529 1,895 1,449 1,388	651 578 603 5,837 1,262	1,125 587 1,059 1,993 2,564	2,697 7651 757 431	1,550	
2	S OF PATIENTS OR DECEASED	lstoT	8,140 46,988 2,407 5,584 4,954	10,382 3,234 15,600 11,235 12,228	5,907 5,212 4,389 35,410 10,606	8,979 3,431 15,867 19,108 18,904	20,409 6,541 8,945 7,218	8,990	
	AVERAGE STAY DISCHARGED O	Adults and Children	0.00 0.00 0.00 0.00 0.00	7.6 6.4 7.6 6.7 6.7	000000	0 10 8 8 F.	6.8 6.9 10.2 11.0	6.2	
	0 %	Newborn	9 K K 6 6 8	9 5 7 4 4 0	0 0 0 0 C 0	80.087.9	7.8.7.9.8 4.4.4.00.8	5.40	
	PATIENTS	LatoT	70.00 A	4.00.7.7.00 4.00.7.7.00	1.00.00.00 1.00.04.00	01000C	6.9 6.6 10.1 10.7	9.4	
	X	ОССПЬЧИС	100.6 100.6 26.3 26.3	102.5 102.5 43.7 62.3	24.3 28.8 136.0	61.4 52.2 93.3 83.1 121.3	72.6 62.0 71.4 45.8 82.8	64.8	

62.8 69.7 80.2 72.8 107.4	77.5		
6.3 6.3 6.4 6.4	80 10	34.8	8.2
7.7.8 8.3.7.7.2 10.4	9.2	!	9.7
10.15.15.00 88.80.80	8.7	34.8	8.3
9,569 13,960 224,340 18,364 5,535	2,246,009	113,709	2,132,300
1,076 1,643 2,391 2,538 591	260,791		260,791
8,493 12,317 21,949 15,826 4,944	1,985,218	113,709	1,871,509
9,568 13,848 24,338 18,488 5,658	2,249,855	114,256	2,135,599
2,538 2,546 2,546 562	260,958		260,958
8,482 12,215 21,957 15,942 5,096	1,988,897	114,256	1,874,641
Vulcan Municipal Wainwright Municipal Westlock, Irmaculata Wetaskiwin Community Willingdon General	TOTAL	Less D.V.A., Psychiatric, Orthopedic and Polio Division Cases	NET TOTAL

*9 Months only January to September. **4 Months only January to April. †Not available.

TABLE 30—HOSPITAL BEDS AND MOVEMENT OF PATIENTS BY HOSPITAL, 1957

(Excluding Chronic and Domiciliary Beds)

	tedtridil	ms	H0 4	H00	18 181	10H00H	9 m H	-
	moorn	ωN	244 8	1 91	27 883	0,∞ H	Summ	нын
Deaths	ults and ildren		1200	4021	21.5	00 est	16 8 17 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	88888
rges	мрош	ЭN	195 112 192 192 129	47 150 39 163	242 4,608 2,321	414 439 195 13	88888	88488
Discharges	ults and ildren	СР	2,061 1,199 1,936 1,936 797	532 1,159 1,400	1,915 20,423 498 12,055 237	3,741 3,741 1,253 255	1,419 178 1,282 788 972	493 632 1,050 343 614
sions	мроги	9N	195 192 192 132	153 153 165	246	74 24 21 21	88 26 195 94 128	25020
Admissions	ults and ildren		2,089 1,222 1,972 843 804	542 1,194 444 1,425	1,931 21,011 501 12,246	3,806 3,806 379 1,270	1,424 1,297 784 981	499 635 1,061 348 613
	fal	οТ	2,315 1,352 2,216 907 956	597 586 1,371 491 1,608	2,213 26,157 515 14,875 289	905 4,328 431 1,482 276	1,533 221 1,518 895 1,120	580 719 1,150 378 650
4		[H	1,258 664 1,197 489 569	318 345 801 288 969	1,203 16,015 318 9,152 135	2,484 210 210 933 149	853 112 922 556 663	301 393 221 334
ing Year	IstoT	M	1,057 688 1,019 418 387	279 241 570 203 639	1,010 10,142 197 5,723	1,844 1,844 127 127	680 109 339 457	279 326 470 157 316
Care During		ম	29 27 8 27 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	24825	2,290	220 8 101 8	48 17 47 63	22 22 22 24
Patients Under C	Adults and Children Newborn	M	104 59 113. 80	882388	2,437	239 222 97	101 101 648 67	33 17 14
		F	1,160 610 1,114 460 499	298 304 723 892 892	1,104 13,725 318 7,996 135	2,270 188 832 141	803 803 809 809 809	269 862 809 820 820
F		M	953 906 323 323	249 207 491 183 551	7,705 197 4,492 154	1,605 199 452 122	639 98 495 291 390	242 286 140 302
nent /57	Lah	oT —	284721	76 233 233	736 120	120 33	### ## ## ## ## ## ## ## ## ## ## ## ##	82821
Complement t Dec. 31/57	Bassinets		13 9 9 9 9	120000	110	8128	4000	∞4r∪U4
Bed Compl As at Dec.			<u>8</u> 442551	22 42 45 45 45 45 45 45 45 45 45 45 45 45 45	626 626 120	16815	45488	28882
aty	Isto	T	84488	2828818	77 782 382 156	881984	821881	116223
Capacity	stanissa	B	8441	120007	110	18 222 4 6	0000n	∞ w ro c/4
Bed	s pa	B	44888	16 72 72 73 52	64 672 328 156	15 98 12 24 14	80455	22 18 12 14 17
	HOSPITAL		Athabasca Municipal Banff, Mineral Springs Barrhead, St. Joseph's Bassano Municipal Beaverlodge Municipal	Bentley Municipal Berwyn Municipal Blairmore, C.N.P. Municipal Bonnyville, K. H. Prittie Bonnyville, St. Louis	Brooks Municipal Calgary General Calgary General Psychiatric Calgary Holy Cross Calgary, Alberta Red Cross	Calgary, Salvation Army Grace Garnose, St. Mary's Cannore, Cannore Cardston Municipal Carmangay, Little Bow	Castor, Our Lady of the Rosary Clarestion, Municipal Coaldale, Community Cold Lake, John Neil	Consort Municipal Coronation Municipal Daysland, Providence Desmarals, St. Martin's Devon, Civic

DIVISION OF HOSPITAL AND MEDICAL SERVICES

			AMMUA	L KEPU	KT, 1957			63
222 513	2 28		HH00 !	те :e-	62332 H	12 4.00	1040H	H 00
64 12	888 12	1 0	ннаа	7 198	0,000	00000	10 1 4 · W	ESUMPIO BOMPIO
19 54 7 7 196	148 451 3 354	63 24 21	100	40	80448	1930 51	88 89 48 94	8 7 7 153
130 280 73 131 2,066	2,089 5,088 1,853	284 146	163	88 62 513 32	184 49 354 164	111 111 205	236 236 236	110 130 150 850
1,010 2,005 1,004 136 13,017	57 12,395 20,413 295 13,556	1,904 135 368 1,409 2,379	306 349 1,460 717	947 1,302 668 3,181 283	1,450 653 2,345 1,750 1,349	369 1,258 2,010 2,328	2,623 5,809 1,482 2,254	668 737 1,349 4,528
134 287 75 132 2,112	2,131 5,147 1,877	148	98 98 88 88	89 61 524 33	288 358 171	9 117 276 209	128 905 463 239	61 116 75 153 855
1,042 2,059 1,018 13,238	33 12,553 20,930 288 13,950	1,957 134 372 1,434 2,399	325 346 1,466 732	958 1,312 673 3,240 288	1,465 670 2,365 1,784 1,373	374 710 1,291 2,059 2,349	2,677 5,881 5,664 1,486 2,264	678 745 548 1,353 4,673
1,191 2,394 1,106 277 15,634	57 26,603 26,603 16,264	2,085 167 380 1,743 2,587	369 420 1,656 976 799	1,071 1,396 735 3,810	1,682 732 2,771 2,060 1,567	392 867 1,427 2,369 2,599	2,835 6,927 6,228 1,740 2,546	753 872 632 1,536 5,647
1,409 1,99 199 9,330	30 9,198 16,164 129 9,096	92 364 963 1,532	219 241 981 535 417	608 745 401 2,127 157	898 378 1,630 1,132 846	191 404 815 1,414 1,533	1,599 4,124 3,537 1,012 1,364	431 511 340 766 3,278
465 985 515 78 6,304	5,792 10,439 7,168	2,085 75 16 1,055	150 179 675 441 382	463 651 334 1,683	784 354 1,141 928 721	201 463 612 955 1,066	1,236 2,803 2,691 728 1,182	322 361 292 770 2,369
68 149 31 61 1,035	1,103 2,599 951	133	828 820 830 84 830 830 84	29 31 19 261 15	95 179 119 96	3 57 141 113	50 457 233 109 127	20 82 83 83 85 85 85 85 85 85 85 85 85 85 85 85 85
68 140 77 1,112	1,067 2,650 982	163	82 82 83 83 84 85 85 85 85 85 85 85 85 85 85 85 85 85	28833	94 184 129 79	86 63 141 99	78 461 234 110	83 87 174 172 174
1,260 1,260 560 138 8,295	30 8,095 13,565 129 8,145	364 830 1,468	201 215 898 485 383	579 714 382 1,866 142	803 355 1,451 1,013	188 345 758 1,273 1,420	3,667 3,867 3,304 903 1,237	402 453 307 681 2,876
397 845 471 5,192	27 7,789 169 6,186	2,085 75 16 617 969	127 139 593 392 351	401 620 299 1,418 149	690 327 957 799 642	194 377 549 814 967	1,158 2,342 2,457 618 1,066	289 303 249 1,898
43 122 31 8 8 440	410 762 1,019	47	22222	51 49 24 85 14	23 83 83 83 83 83 83 83 83 83 83 83 83 83	24 88 83 83 83	103 250 231 **	228
2777	155	800	940E4	801-04	0.0220	88 16 14	21888* 41	3,220000
28 101 26 371	341 607	8.4	23 24 24 21	43 17 10 10	88484	13 26 27 52 69	192 201 201 83	22 24 22 24 22 24
43 114 34 8 8	440 712 902	409	82488	39 43 15 14 14	288	7188387	101 250 199 **	280 280 280
200000	80 136 75	100	100	16	8 112	88 116 141	10 188 188 14	33.488
32 94 29 6 371	360 576 **	37	23 32 14 21	25. 89 10	48448	13 26 27 57	91 192 181 181 53	22 16 15 20 243
Didsbury Municipal Drumheller Municipal Eckville Municipal Edmonton, Bealah Home Edmonton General	(a) Polio Edmonton Misericordia Edmonton, Royal Alexandra (a) Isolation Edmonton University	(a) D.V.A. (b) Pollo (c) Psychiatric Edson, St. John's Elk Point Municipal	Elhora Municipal Empress Municipal Fairview, Municipal Fort Macleod Municipal Fort McMurray, St. Gabriel's	Fort Vermilion, St. Theresa Galahad, St. Joseph's Glendon Municipal Grande Prairie Municipal (a) Hythe Sub.	Hanna Municipal Hardisty. St. Anne's High Prairie, Providence High River Municipal Innisfail Municipal	Islay Municipal Jasper, Seton Killam, General Lacombe Municipal Lac La Biche, St. Catherine's	Lamont, Archer Memorial Lethbridge Municipal Lethbridge, St. Michael's Lloydminister McLennan, Sacred Heart	Magrath Municipal Manhing Municipal Mannville Municipal Mayerthorpe Municipal Medicine Hat

TABLE 30 — HOSPITAL BEDS AND MOVEMENT OF PATIENTS BY HOSPITAL, 1957 (Continued) (Excluding Chronic and Domiciliary Beds)

	64		DIVISIO	N OF HO	SPITAL .	AND MEI	DICAL SH	ERVICES		
	llbirthst	ns	4-1	04 € © H	101	4424	H H	H0H0	100	386
1S	ntodw	ЭN	निलन	10 w 4 c w	46473	N004N	NH 100	£	440	477
Deaths	bns stiu ldren	Ad.	441084	512 4 4 B B	16 16 61 8	182780	450000	118	1088	3,747
rges	wporm	9N	8214388 8244388	221 170 195 69	208 160 160	2572 2572 360	95.00 T81	164 116 135 232	268 349 55	33,858
Discharges	bns situ Maren	CP	302 762 1,146 421	1,254 1,254 1,611 714	643 1,411 1,149 520	1,653 1,996 2,147 2,563 860	1,167 469 609 1,310 2,127	1,415 1,276 488 1,440 1,561	2,978 2,487 791	372 224,967
sions	мрогл	θN	88484	220	215 215 164 87	133 264 366 114	110.000	171 118 81 138 232	267 356 54	34,372 2
Admissions	ults and ildren	СЪ	309 770 747 1,176	1,818 1,292 1,624 734 698	654 4,810 1,443 1,163 528	1,657 2,020 2,166 2,593 877	1,186 480 615 1,321 2,162	1,430 1,299 1,449 1,565	3,000 2,561 805	28,972
	Isl	οŢ	348 814 809 1,419 502	2,080 1,488 1,847 841 777	747 5,653 1,673 1,354 622	1,827 2,344 2,465 3,004 1,005	1,315 548 686 1,434 2,389	1,627 1,434 578 1,610 1,824	3,333	17,035 112,638 155,745 268,383 228,972
4		Ŀ	160 458 463 824 284	1,154 842 1,108 483 470	3,274 242 144 188	1,061 1,351 1,399 1,745	832 342 375 1,424	967 793 353 893 1,042	1,868	55,745 2
During Year	LetoT	M	188 356 346 595 218	926 739 358 307	2,376 731 613 241	766 993 1,066 1,259	206 311 638 965	666 641 717 717	1,465	12,638 1
are		[tq	112 109 36	28848	4 8 8 1 8 4 4 8 8 8 4	138 171 171	110883	25 P P P P P P P P P P P P P P P P P P P	1188	17,035 1
	Newborn	M	112 112 36 36	121 118 51 35	397 110 78 43	131	488884	85 85 83 110	202 202 28	17,930
	Children	년	143 445 715 248	1,047 760 1,022 439 431	2,896 836 651 337	991 1,218 1,263 1,574 537	785 312 343 758 1,314	880 737 307 816 918	1,738 1,531 475	
Pa	atlubA	M	166 340 320 483 182	805 553 621 307 272	1,979 621 535 198	700 1,060 353	419 176 289 585 891	573 190 654 672	1,321 1,068 343	94,708 138,710
nent 1/57	Lat	οT	228842	2372	88848	89898	45 80 105 105	L4848	108 76 29	8,628
d Complement at Dec. 31/57	staniss.	Ba	4800	601199	π 84 0 π	88485	69904	41 00 17 41	118	1,400
Bed As a	sp	Be	28847	£28 8 E H	85885	88458	88288	35 18 37 48	888	7,228
teity	fal	DT.	8288°	45888 8	22,248	824858	94 84 84 84 84 84 84 84 84 84 84 84 84 84	84148	93	8,427
d Capacity	gjanissi	B	4000	99199	11000 B	4.8510	00 00 41	14 00 14 14	2128	1,403
Bed	spa	Be	9847	37 64 78 14 14	81 194 155 151	25 25 25	8888	45.54 45.45 45 45 45 45 45 45 45 45 45 45 45 45 4	583	7,024
	HOSPITAL		Mercoal, Mercoal Hospital Mundare General Myrmam Municipal Olds Municipal Oyen Municipal	Peace River Municipal Plincher Creek, St. Vincent's Ponoka Municipal Provost Municipal Radway, St. Joseph's	Raymond Municipal Red Deer Municipal Rimbey Municipal Rocky Mountain House, Municipal Smoky Lake Municipal	Spirit River, Holy Cross Stettler Municipal St. Paul, St. Theresa Taber Municipal Three Hills Municipal	Toftled Municipal Trochu, St. Mary's Turner Valley Municipal Two Hills Municipal Vegreville, St. Joseph's	Vermilion Municipal Miking Municipal Vilna, Our Lady's Vulcan Municipal Wainwright Municipal	Westlock, Immaculata Wetaskiwin, Community Willingdon, General	TOTAL

*Average for the year
**Not available
†Not including non-viable

TABLE 31

ACTIVE TREATMENT HOSPITAL BEDS, 1949-1957
(Excluding Chronic and Domicillary Beds)

	BE (D CAPA		BED	COMPLE (At Dec.		Beds P Pop. b Comp	en 1 Year	
YEAR	Beds and Cribs	Bassinets	Total	Beds and Cribs	Bassinets	Total	Beds and Cribs	Total	Adult and Children Patients Per Bed Complement Per Y
1949	4,684	910	5,594	5,617	1,079	6,696	5.4	6.4	28.6
1950	4,992	945	5,937	5,982	1,107	7,089	5.6	6.6	27.2
1951	5,521	998	6,519	6,239	1,132	7,371	5.9	6.9	27.3
1952	5,752	1,022	6,774	6,159	1,165	7,324	5.9	6.9	30.2
1953	6,371	1,083	7,454	6,810	1,242	8,052	6.3	7.4	29.0
1954	6,546	1,144	7,690	6,910	1,283	8,193	6.3	7.4	29.7
1955	6,866	1,314	8,180	7,142	1,371	8,513	6.4	7.7	29.7
1956	6,939	1,396	8,335	7,096	1,339	8,435	6.3	7.5	31.0
1957	7,024	1,403	8,427	7,228	1,400	8,628	6.2	7.4	32.3

 ${\tt TABLE~32} \\ {\tt HOSPITAL~STAFF} \\ {\tt FULL~TIME~AND~PART~TIME~AS~OF~DECEMBER~31,~1955-1957}$

	1955	1956	1957	Increase 1957 Over 1956	Percentage of Increase over 1956
Nurses, Graduates Students Nursing Aides, Certified Trainees Orderlies Interns Salaried Doctors Technicians Dietitians All others*	1,895 1,437 ,653 13 191 127 44 287 47 4,274	2,074 1,253 686 93 208 123 55 337 77 4,398	2,377 1,517 785 118 252 129 58 364 100 4,679	303 264 99 25 44 6 3 27 23 281	14.6 21.0 14.4 26.8 21.1 4.8 5.4 8.0 29.8 6.3
Total Staff	8,968	9,304	10,379	1,075	11.6

^{*}Matrons included with "all others"

TABLE 33—HOSPITAL STAFF AS AT DECEMBER 31, 1957—BY HOSPITAL FULL-TIME & PART-TIME

	Graduated During Year			2181			
	Nurses, Training School			MM			
	Organized Medical Staff	××	×	XXXXX	* ×× ;××	××	
	*stadtO IIA	22782	23.0	287 287 15	76 76 76 76 76	- R - Z 9	40E 84 8
	Dietitians	-		HH & TU	14484	m	H작
	Technicians	H00 H	H W	ឧឧឌ	r H W	[0] [00
	Intern			12:			
	Orderlies	17 111	-	38	w w		ון ון מו
S AIDES	99nisTT		60	9	ν		1
NURSES	Certified	4000	m477m	98554	12 10 10	H0R4	100 10
NURSES	Student			259			
NUI	Graduate	10211	R82140	18 255 317 155	23	26442	1212002
	Salaried			1001	[8]]		+
	Total	35 44 17 117	41 20 38 38	57 1,272 1,272 713	126 112 335 133 46	1201330	27 27 13 45 54
	HOSPITAL	Athabasca Municipal Banff Mineral Springs Barrhead, S. Joseph's Barsano Municipal Basano Municipal	Bentley Municipal Berwyn Municipal Berwyn C.N.P. Municipal Bonnyville, K. H. Prittle Bonnyville, St. Louis	Brooks Municipal Calgary, Alberta Red Cross Calgary General Calgary, Holy Cross Calgary, Salvation Army Grace	Camrose, St. Mary's Carmore, Hospital Cardston Municipal Carmangay, Little Bow Municipal Castor, Our Lady of the Rosary	Cereal Municipal Claresholm Municipal Coaldale. Community Cold Lake, John Nel Consort Municipal	Coronation Municipal Daysland, Providence Devon, Cyric Desmarals, St. Martin's Did*nury Municipal

::: 148	91.					82 : : :	123	!!!
××	×× ; ; ;				 	××		
× ××		×	×× ×	XXX	XXX	××	××× ; ;	×
14 10 340 291	656 656 856 84 8	19 12 13 13	15 3 18	21 88 11 80 12 80 13	10 18 14 47 47	168 147 42 7 13	9 21 4 11	992
니다 4·4		HH H4	- 	HH	ਜ ਜਜ	NWH	844	111
833 23	32 32 11 33	ㅋㅋㅋ 4	N N H	444 H	88888	113	[6100]]	4
	¥8:							111
15	38 63	-				11 9	4	111
∞ ∞]	4	4		m				ر ا ا
2112	25 25 25 25 25 25 25 25 25 25 25 25 25 2	410980	102283	N m m N	H	71 8 4 9 8	126	2 1 2
175	322				%	288 : : : :	: : 22 : :	
31 8 182 212	275 275 10	400024	248 211	4 11 12 12 12 12 12 12 12 12 12 12 12 12	177 23	38 13 13 7	4226	10
m w	52					88	-	
95 26 15 785 687	1,136 1,486 34 52 16	30 33 33 33 33 33 33 33 33 33 33 33 33 3	26 119 63 7 48	24 68 33 11	28 28 24 111	295 295 79 20 23	27 225 8 18	16
Drumheller Municipal Eckville Municipal Bekville Municipal Bedonthin Beduah Home Edmonthin, General Edmontun, Misericordia	Edmonton, Royal Alexandra Edmonton, University Edson, St. John's Elk Point, Municipal Elnora Municipal	Empress Municipal Fairview Municipal Fort Macleod Municipal Fort McMurray, St. Gabriel's Fort Vermilion, St. Theresa	Galahad, St. Joseph's Grendon Municipal Grande Prairie Municipal (a) Hythe—Sub Hospital Hanna Municipal	Hardisty, St. Anne's Eigh Prairie, Providence High River Municipal Innistali Municipal Islay Municipal	Jasper, Seton Killam General Lacombe Municipal Lac La Biche, St. Catherine's Lamont, Archer Memorial	Lethbridge Municipal Lethbridge, St. Michael's McLennan, Sared Heart Magrath Municipal Manning Municipal	Mannville Municipal Mayerthorpe Municipal Medicine Hat Municipal Mercoal Municipal Mundare General	Myrnam Municipal Olds Municipal Oyen Municipal

TABLE 33—HOSPITAL STAFF AS AT DECEMBER 31, 1957—BY HOSPITAL (Continued) FULL-TIME & PART-TIME

			N	NURSES	NURSES	S' AIDES								
HOSPITAL	Total	Salaried	Graduate	Student	Certified	Traince	SeifrebrO	smstnI	Technicians	Dietitians	*stəftO IIA	Desires Organized IsolobeM	Nurses, Training School	Graduated During
Peace River Municipal Pincher Creek, St. Vincent's	46		10 8		9	m	: =		22	-	28 48 88	×	! !	
Ponoka Municipal Provost Municipal Radway, St. Joseph's Raymond Municipal Red Deer Municipal	22 44 11 12 14 1		41 888 424		∞ €1 H 10 00	4 9			H H 10		20 14 7 7 83	×× ; ;×		
Rimbey Municipal Rocky Mountain House Municipal Smoky Lake Municipal Spirit River, Holy Cross Stettler Municipal	82488	-	964.98		@ 60 60 4 7D	4			HH 010	H	110 171 148 88			
St. Paul, St. Theresa Taber Municipal Three Hills Municipal Tofield Municipal Trochu, St. Mary's	128333		ထည့်ဝထည	0	& Q & W & 4	11111	HH		1001	12 2	23 23 15	××		
Turner Valley Municipal Two Hills Municipal Two Hills Municipal Vegreville, St. Joseph's General Vermilion Municipal Viking Municipal	22 25 28 34 28 35 35 35 35 35 35 35 35 35 35 35 35 35		7-7-13 133 9	34:	:mH06	2	+	+	H70 4	17	117 171 188 199	××		6
Vilna Municipal Vulcan Municipal Wainwright Municipal Westlock, Immaculata Wetaskiwin, Community Willingdon General	27. 24. 48. 48. 51. 16.		110 110 14	111111	H 901 80 H	H & 4	-	11111	94644	ન ન	4223220			
TOTAL	10,379	58	2,377	1,517	785	118	252	129	364	100	4,679	4	1	431





PART III

ANNUAL REPORT

OF THE

Bureau of Vital Statistics

OF THE

DEPARTMENT OF PUBLIC HEALTH

PROVINCE OF ALBERTA

1957

1 7 8 4 9

THE TELT IN SOME

DIET'NO

of Vital Statistics

BHT NO

SCREAGE DUEST OF TARACTE

CONTENTS

Summary	1
Population of Census Divisions	5
General Summary of Vital Statistics for Census Divisions	
General Summary of Vital Statistics for Incorporated Urban Places	
Deaths by Place of Occurrence and Place of Residence	9
Deaths and Hospital Deaths by Occurrence and Residence for Census Divisions	9
Deaths and Hospital Deaths by Occurrence and Residence for Urban Places	10
Cause of Death by Sex for Census Division	11
Cause of Death by Sex for Urban Places	16
Deaths by Cause and Sex, by Age, Alberta	21
Deaths by Cause and Sex, by Age, Edmonton	29
Deaths by Cause and Sex, by Age, Calgary	36
Deaths by Cause and Sex, by Marital Status and Age, and Month of Death, Alberta	43
Infant Deaths for Census Divisions	51
Infant Deaths for Urban Places	52
Causes of Infant Deaths by Sex and Age	53
Causes of Infant Deaths by Sex and Calendar Month of Death	55
Deaths According to International Abbreviation List	57
Death Rates per 100,000	59
Cause of Death by Numbers and Rates of the Last Decennial Year	61
Deaths of Indians	62
Deaths of Treaty Indians	68
Causes of Deaths, Infant Indians	73
Cause of Infant Death Treaty Indians by Sex and Age	74
Live Births of all Indians	75
Live Births of Indians by Age of Parents	76
Births by Place of Occurrence	78
Live Births for Census Divisions	79
Live Births for Urban Places	80
Live Births by Month	80
Live Births by Type of Attendance	81
Live Births by Ages of Parents	83
Live Births by Age of Mother	84
Multiple Births	85
Marriages by Months	05
Marriages by Ages	86
Marriages by Marital Status	87
Marriages by Birth Places	88
Marriages by Religious Denominations	
Stillbirths	91
Ratio of Male to Female Births	91
Divorces	92
Population, Births, Marriages, Deaths and Rates for Years 1905-1957	93

BUREAU OF VITAL STATISTICS

JOHN COLVILLE, Deputy Registrar General

The 1957 Report of the Vital Statistics Division of the Department of Public Health is the 52nd report published since the establishment of the Province and shows slight decreases in the birth, marriage and maternal mortality rates and slight increases in the death and infant mortality rates over the previous year.

POPULATION

The population of the Province of Alberta for the year 1957 has been estimated by the Dominion Bureau of Statistics as 1,160,000. All rates in this report are therefore based on that figure.

BIRTHS

A high birth rate has been maintained in the Province for the past decade and the 1957 rate of 30.8 per 1,000 population is the second highest of the Provinces of Canada. The rate for all of Canada is 28.3. There were 35,718 children born to residents of the Province during 1957, an increase of 767 over the previous year. The rate of male to female births was 1,055 males to 1,000 females and of the total births 18,343 were males and 17,375 females. There were 368 sets of twins and 5 sets of triplets born during the year. Illegitimate births numbered 1,810 an increase of 136 over the previous year and constituting a rate of 5.06 per 100 live births. Eighty-five per cent of the births occurred in urban places of 1,000 population and over, and 97% in hospitals.

The number of births registered in the cities of the Province were as follows: Calgary, 7,456; Camrose, 444; Drumheller, 287; Edmonton, 11,522; Lethbridge, 1,369; Medicine Hat, 856; Red Deer, 761 and Wetaskiwin, 355.

For the purpose of comparison the following are the recent birth rates for Canada and certain other countries:

Canada	28.3	Northern Ireland	21.5
Newfoundland		Ireland (Republic)	21.2
Prince Edward Island	27.0	United States	25.0
Nova Scotia	27.5	Australia	22.9
New Brunswick	30.1	New Zealand	24.9
Quebec	29.8	Denmark	16.8
Ontario	26.8	Finland	19.8
Manitoba	26.0	France	18.4
Saskatchewan	27.2	Italy	18.3
Alberta		Austria	16.8
British Columbia		Norway	18.2
England and Wales		Netherlands	21.2
Scotland		Portugal	23.3
Spain	21.7	Sweden	14.6
Switzerland	17.7	Western Germany	17.0

MARRIAGES

The marriage rate of 8.7 per 1,000 population for 1957 is the highest of the Canadian Provinces and Alberta has held the poll position since 1949. The highest marriage rate in the history of

the Province occurred in 1946 and the rate was 11.8. There were 10,117 marriages registered during the year, an increase of 152 over the previous year.

There were 366 brides of 16 years and under; 3,041 were between the ages of 17 and 19; 4,035 were between the ages of 20 and 24, and 10 were 75 years and over. Of the bridegrooms, 220 were 18 years of age and under; 4,943 were between the ages of 19 and 24, and 27 were 75 years and over. Seventy-three per cent of the brides and 50% of the bridegrooms were 24 years or under at the time of marriage. Of the brides 9,109 were spinsters; 479 widows and 529 divorced, and of the bridegrooms, 9,242 were bachelors; 338 were widowers and 537 divorced.

The number of marriages registered in the cities of the Province were as follows: Calgary, 2,116; Camrose, 71; Drumheller, 62; Edmonton, 3,113; Lethbridge, 404; Medicine Hat, 290; Red Deer, 198 and Wetaskiwin, 87.

The following Table shows the marriage rates for Canada and certain other countries:

Canada	8.0	United States	8.9
Newfoundland	7.1	Australia	7.7
Prince Edward Island	6.3	New Zealand	7.9
Nova Scotia	7.4	Denmark	7.3
New Brunswick	7.6	Finland	7.2
Quebec	7.8	France	7.0
Ontario	8.3	Italy	7.5
Manitoba	7.7	Austria	8.1
Saskatchewan	7.4	Norway	7.1
Alberta	8.7	Netherlands	8.5
British Columbia	8.5	Portugal	8.0
England and Wales	7.7	Spain	8.4
Scotland	8.3	Sweden	7.0
Northern Ireland	6.7	Switzerland	8.1
Ireland (Republic)	5.0	Western Germany	9.0

- 1

DIVORCES

During the year 726 Divorces were recorded, 317 were granted to husbands and 409 to wives. Eight Decrees of Nullity were also recorded, 2 were granted to husbands and 6 to wives. The highest number of Divorces recorded in any one year was in 1946 and numbered 974.

DEATHS

The death rate for 1957 is 7.1 per 1,000 population and this is the lowest rate for the Provinces of Canada. Alberta has held the lowest death rate in Canada for the past four consecutive years.

The deaths of 8,255 persons were registered during the year, 5,190 of which were males and 3,065 females and the ratio of deaths between the sexes was 1,693 males to 1,000 females. Of the total deaths 55.7% were decedents of 65 years and over.

The number of deaths registered in the cities of the Province were as follows: Calgary, 1,488; Camrose, 77; Drumheller, 39; Edmonton, 1,626; Lethbridge, 234; Medicine Hat, 209; Red Deer, 96; and Wetaskiwin, 55.

The number of deaths from heart disease has been increasing during the last few decades and the year 1957 was no exception.

Heart Disease is still the leading cause of death and accounted for 2,371 deaths in 1957, an increase of 73 over the previous year. The rate of 204 deaths per 100,000 population is the same as in 1956.

During the year, 1,262 deaths were assigned to Cancer, an increase of only 11 over the previous year. Deaths from Cancer have been on the increase for a number of years and some of the increase may be attributed to the aging of the population. Vascular lesions affecting the central nervous system accounted for 939 deaths, a substantial increase over the previous year's figure of 806. Deaths from Tuberculosis (all forms) increased sharply from the previous year's total of 43 to 68. The number of deaths due to Diabetes also rose sharply from 98 in the year 1956 to 141. Deaths from Measles increased from 3 in the previous year to 16. The Asian Flu Epidemic attributed to the sharp increase in the number of deaths from Pneumonia (all forms) and Influenza, the former accounted for 352 deaths as compared to 325 for the previous year, and the latter to 135 as compared to 35.

There was an encouraging decrease in the number of violent and accidental deaths (suicides excepted), the number registered for 1957 was 640 as compared to 667 for the previous year. The notable decrease in this section occurred in deaths from motor vehicle accidents, 247 were registered, a reduction of 36 under the 1956 total. Other violent and accidental deaths registered were as follows: Other transport accidents, 39; accidental poisonings, 35; accidental falls, 92; machinery accidents, 34; accidents caused by fire and explosion of combustible material, 3; accidents caused by hot substances, corrosive liquid, steam and radiation, 4; accidents caused by firearms, 14; accidental drownings, 43; all other accidents, 85; suicides, 105; homicides, 10 and injury resulting from operations of war, 1.

The Death Rates for Canada, the Provinces and certain other Countries are as follows:

Canada	8.2	United States	9.6
Newfoundland	7.5	Australia	8.8
Prince Edward Island	9.3	New Zealand	9.3
Nova Scotia	8.5	Denmark	9.3
New Brunswick	8.1	Netherlands	7.5
Quebec	7.6	Finland	9.4
Ontario	8.7	France	12.0
Manitoba	8.6	Italy	10.0
Saskatchewan	7.7	Austria	12.7
Alberta	7.1	Norway	8.6
British Columbia	9.2	Portugal	11.3
England and Wales	11.5	Spain	9.8
Scotland	11.9	Sweden	9.9
Northern Ireland	10.9	Switzerland	10.0
Ireland (Republic)		Western Germany	11.3

MATERNAL DEATHS

There were 13 puerperal deaths registered during the year, a decline of 2 under the previous year. The rate of 0.3 per 1,000 live births compares favourably with the rates in the other Provinces.

MATERNAL DEATH RATES PER 1,000 LIVE BIRTHS

Canada Newfoundland Prince Edward Island Nova Scotia New Brunswick	0.7	Ontario Manitoba Saskatchewan Alberta British Columbia	0.4 0.4 0.2 0.3 0.4
New Brunswick	0.5	Diffusii Columbia	0.4

INFANT DEATHS

There was a sharp increase in the number of deaths of children under one year of age, 963 were recorded as compared to 860 in the previous year. The rate of infant deaths per 1,000 live births was 27, an increase of 2 over the 1956 rate. This is the first year since 1949 in which the infantile mortality rate increased over that of the preceding year. The rate for Alberta is the second lowest for the Provinces of Canada. Of the total deaths, 531 were males and 432 females.

INFANT MORTALITY RATES PER 1,000 LIVE BIRTHS

Canada Newfoundland Prince Edward Island Nova Scotia New Brunswick	31 39 28 27 35	United States Australia (1956) New Zealand Denmark Netherlands	26 22 20 23 17
Quebec Ontario	38	Finland	28
Manitoba	25 32	France	34 50
Saskatchewan	25	Austria	45
Alberta	27	Norway(1955)	21
British Columbia England and Wales	28 23	Portugal	89
Scotland	29	Spain	48 17
Northern Ireland	29	Switzerland	23
Ireland (Republic)	33	Western Germany	36

Stillbirths numbered 385, a decrease of 24 under the total for the preceding year. The rate also dropped from the 1956 figure of 11.7 per 1,000 live births to 10.8, and this rate is the lowest in Canada. Of the total stillbirths, 187 were males and 198 females.

There was an increase in the volume of work completed by this Division during the year, the births of 89 children were legitimated by the subsequent marriage of their parents; 1,284 delayed registrations of birth were filed; 1,382 legal adoptions recorded; 460 legal change of name, 1,719 change of Christian name were filed, and 90,450 certificates issued comprising 71,762 births, 14,859 marriages and 3,829 deaths.

DIVISIONS OF ALBERTA FOR CENSUS AND VITAL STATISTICS PURPOSES

As the Province of Alberta is not divided into Counties, and the political divisions are not permanently fixed, it has been found advisable to use smaller areas, the Dominion Census Divisions.

Prior to 1956 the Province was divided into 17 census divisions. However in 1956 the census division boundaries were completely revised and there are now 15 census divisions. These divisions are further sub-divided into municipal areas. The municipal areas which were each originally within the boundaries of a single census division, have been reorganized by the Provincial authorities into larger units, and now, in many cases, part of the new municipality or improvement district is in one census division and part in another.

The following table shows the census divisions divided into municipalities, improvement districts, cities, towns and villages with the 1956 and 1951 division population figures.

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1951 AND 1956

Division and Subdivision	Tot	al	Division and Subdivision	Tot	al
Suburvision	1956	1951	Subdivision	1956	195
ALBERTA	1.123.116	939,501	Division No. 5—Continued:		
1			Cities:		
Division No. 1	34,496	28.317	Drumheller	2,632	2,60
Division No. 1 2. Forty Mile	4,224	3,924	Gleichen	581	4:
11. I.D.—D.A. 22. I.D.—D.A.	4,076	4,025	Strathmore	727	70
Army Experimental Range	592 863	563 533	Three Hills	1,095	1.02
Cities:	000	000	Villages:	1,204	1,04
Medicine Hat	20,826	16,364		292	2
Towns: Bow Island	1 001	CEO	Acme Arrowwood Carbon	240	22
Irvine	1,001 232	653 224	Carmangay	354 299	3'
Irvine Redcliff	2,001	1,538	Champion	402	3'
Villages:	200	710	Carmangay Champion Cluny Craigmyle Delia Husser	197	2
Burdett	225 456	118 375	Delia	138 282	1 2
	100	010	Hussar	168	í
Division No. 2	74,991	67.694	Hussar Lomond Milo	189	1
14. 1aber	6,730 11.624	6,157 13.857	Milo	167	1
Newell County No. 4	5,943	7,023	Morrin Munson Rockyford Rumsey	267 82	2
Warner County No. 5	5,157	5,322	Rockyford	226	2
Cities:	20,400	99.047	Rumsey Standard	104	1
Lethbridge Towns:	29,462	22,947	Trochu	230 680	2 6
Rassano	753	624	l i	000	
Brooks	2,320	1,648	Division No. 6	237,886	177,4
Brooks Coaldale Milk River Raymond Taber	2,327 642	806 481	31. Foothills 44. Rocky View 46. I.D.—D.A. 49. Mountain View Indian Reserves	7,902 12,788	8,1
Raymond	2,399	2,279	46. I.D.—D.A.	4.650	14,7
Taber	3,688	3,042	49. Mountain View	4,650 9,273	9,4
Villages:	352	369	Indian Reserves Cities:	478	3
Barons	177	258	Calgary	181,780	1129 (
Grassy Lake Nobleford	282	167	Towns:		
Nobleford	263	255	Black Diamond	991	1,1
Rosemary	881 158	865	Bowness	6,217 1,227	2,9 1,1
Picture Butte Rosemary Stirling	430	520	Forest Lawn	3,150	1.0
	240	259	Didsbury Forest Lawn High River Okotoks Olds	2,102	1,8
Vauxhall Warner	713 450	393 422	Okotoks	764 1,980	1 7
	100		Olds	923	1,6
ivision No. 3	30,426	27,667 6,293	Villages:		
6. Cardston	5,398 3,109	6,293 3,215	Airdrie	327 321	2
9. Pincher Creek 26. Willow Creek	6,344	5,166	Airdrie Beiseker Blackie Carstairs Cayley	198	2
Indian reserves	3,524	2,555	Carstairs	449	4
Towns:	0.007	2,487	Cayley	146	
Claresholm	2,607 2,431	1,608	Cremona Cremona	707 192	
Cardston Claresholm Fort Macleod	2,103	1,860	Cochrane Cremona Crossfield	459	- 4
Granum Magrath	322	327	Irricana	158	
Magrath	1,382	1,320 934	Turner Valley	704	7
Nanton Pincher Creek	1,047 1,729	1,456	Division No. 7	40,214	40,2
Stavely	338	327	Division No. 7	3,621	3,7
Villages: Cowley	92	119	52. Provost 53. Paintearth 61. Wainwright 62. Flagstaff Stettler County No. 6 Buffalo National Park	3,515	3,4
Cowley	34	119	62. Flagstaff	4,481 6,806	4,6
			Stettler County No. 6	6,061	6,0
ivision No. 4	14,294		Buffalo National Park	604	2,7
34. Acadia Special Area No. 2 Special Area No. 3	914 3,687	705 3,590	Towns.	958	1
Special Area No. 3	5,036	4,811	Castor Coronation Daysland Hardisty Provost Stettler Wainwright	784	7
Towns:			Daysland	499	4
Hanna Cereal	2,327 154	2,027 135	Hardisty	628 878	5
Chinook	154	116	Stettler	3,359	2,4
Chinook Consort	434	396		2,653	1,9
Empress	480	411	Villages:	210	
Oyen Veteran	562 241	433 206	Alliance	313 151	1
Youngstown	305	352	Amisk Big Valley Botha Chauvin	354	
			Botha	102	
ivision No. 5	38,120	39,055	Chauvin	353 153	3
42. I.D.—D.A.	5,582 5,502	5,779 6,925	Donalda	256	
ivision No. 5 40. Wheatland 42. I.D.—D.A. 47. Starland 48. Kneehill	2.831	2.891	Czar Donalda Edgerton	292	3
48. Kneehill	7,055	7,174	Forestburg	552	4
Vulcan County No. 2	5,087 1,507	5,094 1,300	GadsbyGalahad	145 215	1
	2,001	2,000	Januara	210	-

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1951 AND 1956 (Continued)

Division and Subdivision	Tot	al	Division and Subdivision	Tot	al
Subdivision	1956	1951	Subulvision	1956	195
Division No. 7—Continued:			Division No. 10—Continued:		
Villages—Continued:			BawlfBittern Lake	287	2
Halkirk	209		Bittern Lake	45	
Hughenden	212	218	Bruderheim	290	3
Irma Killam	421 524	369 465	Chipman Derwent	192 289	1 2
Lougheed	201	186	Edberg	167	1
Sedgewick	608	485	Ferintosh	195	2
Strome	306	276	Hairy Hill	183	2
			Hay Lakes	193	2
Division No. 8	64,168	57,513	Holden	544	5
55. Red Deer 64. Lacombe 65. I.D.—D.A. 68. I.D.—D.A. Ponoka County No. 3	12,830	12,243	Innisfree Kitscoty Lamont	318	2
65 I DD A	8,351 5,199	8,612 6,066	T amont	283 632	2
68. I.D.—D.A.	81	194	Lavoy	127	1
Ponoka County No. 3	8,611	9,139	Mannville	599	5
muran neserves	1,230		Marwayne	337	
Cities:			Mannville Marwayne Minburn	150	1
Red Deer	12,338	7,575	Myrnam	440	3
Towns:	1 000	3 417	New Norway	273	2
Innisfail	1,883	1,417	Ryley	495	4
Lacombe	2,747 3,387	2,277 2,574	Willingdon	431	2
Rimbey	980	757	Division No. 11	323,539	235.4
Rimbey	1,285	1,147	74. Wetaskiwin	9,466	8,2
Sylvan Lake	1,114	985	74. Wetaskiwin	11,497	12,5
Villages:			77. I.D.—D.A	3,259	1,3
Alix	517	461	83. Strathcona	8,873	7,5
Bentley	536	439	84. Stony Plain	8,491	8,9
Blackfalds Bowden	340° 296	154 277	90. Sturgeon River	13,865	11,1
Caroline	296	211	Indian Reserves	1,786	1,2
Clive	249	241	Edmonton	226,002	159 6
Delburne	429	395	Wetaskiwin	4,476	3,8
Eckville	456	379	TOWNS:	-,	-/-
Elnora	177	211	Beverly	4,602	2,1
Gull Lake	32	32	Calmar	730	
Mirror	591 213	635	Devon Walley	1,429	8
Penhold	213	174	Drayton Valley	2,588 2,582	1,0
Division No. 9	17,239	19,496	Jasper Place	15,957	9,1
8 TD DA	110	167	Leduc	2,008	1,8
10. I.D.—D.A. 27. I.D.—D.A. 33. I.D.—D.A. 50. I.D.—D.A.	3,269	4,706	Morinville	957	8
27. I.D.—D.A	100	125	St. Albert	1,320	1,1
33. I.D.—D.A.	47	31	Stony Plain	1,098	8
58. I.D.—D.A.	75 429	71	Villages:	0~4	
69. I.D.—D.A.	152	443 1,223	Entwistle	354 2	
946. I.D.—D.A.	2,456	2,630	Lakeview	41	
Banff National Park	3,069	2,856	Legal	457	5
Banff (not incorp.)	2,518	2,357	Ma-Me-O Beach	137	
Jasper National Park	2,322	1,899	Millet	427	4
Jasper (not incorp.) Waterton Lakes	2,105	1,728	Seba Beach	141	1
Waterton Lakes	OFF	000	Silver Beach	17	
National Park	277	238	Spruce Grove	309	
Indian Reserves	1,173	974	Thorsby	411 257	3
Blairmore	1,973	1,933	Warburg	201	
Coleman	1,566	1,961	Division No. 12	44,947	39,8
Villages:			85. I.D.—D.A	348	2
Frank	221	239	86. St. Paul	7,979	9,0
N-1-1 N- 10	W4 W00	WO OWW	87. Bonnyville	10,058	6,7
Division No. 10	71,500		89. Smoky Lake	5,517	6,2
63. Camrose	9,626	10,457 9,663	101. I.D.—D.A	2,039 5,066	2,2 5,1
72. Minburn	9,557 6,742	7.312	121. I.D.—D.A	197	2,1
73. Beaver	6,883	7,312 7,202	89. Smoky Lake 101. I.D.—D.A. 102. I.D.—D.A. 121. I.D.—D.A. 143. I.D.—D.A.	879	8
81. Eagle	7,114	7,722	Wood Buffalo National	0.0	
82. Lamont	7,700	8,778	Park (pt.)	143	
Elk Island National Park	56	55	Indian Reserves	3,530	3,1
Cities:	5.017	1 191	Towns:	1 40-	
Camrose	5,817	4,131	Bonnyville	1,495	1,1
Lloydminster (pt.)	2,506	1,706	Lac La Biche	1,097 967	9
Mundare	650	596	McMurray	1,110	9
Tofield	800	692	St. Paul	2,229	1,4
Two Hills	713	525	Villages:	_,0	_, .
Vegreville	2,574	2.223	Elk Point	594	4
Vermilion	2,196	1,982	Glendon	314	
Viking	897	683	Smoky Lake	563	4
Villages: Andrew	600	COE	Vilna	374	3
Bashaw	602 597	625 603	Warspite Waskatenau	159	2
	001	000	washattidu	289	4

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1951 AND 1956 (Continued)

Division and Subdivision -	Tota	al	Division and Subdivision	Tota	al
Dabat vision	1956	1951	Subdivision	1956	195
Division No. 13	45,033	46,638	Division No. 15—Continued:		
92. Westlock	8.731	8.795	128. I.D.—D.A.	947	59
93. Lac Ste. Anne	6.892	7.282	129. I.D.—D.A.	877	5
103. Athabasca	7.367	8,200	130. Smoky River	3.955	4.3
106. Barrhead	5,944	6.501	131. I.D.—D.A.	2,413	2,0
107. I.D.—D.A.	1.502	1.699	132. I.D.—D.A.	3,133	2,9
108. I.D.—D.A.	781	770	133. Spirit River	1,413	1,4
122. I.D.—D.A.	557	550	134. I.D.—D.A.	2,633	2.6
Thorhild County No. 7	5,596	6.174	135. Peace	1,732	1.7
Indian Reserves	332	279	136. Fairview	1,885	2.0
Towns:	002	210	137. I.D.—D.A.	127	2,0
Athabasca	1,293	1,068	138. I.D.—D.A.	3,489	4.2
Barrhead	1,610	1,243	139. I.D.—D.A.		
Podurator			139. I.D.—D.A	2,635	3,0
Redwater	1,065	1,306	144. I.D.—D.A.	26	1
Westlock	1,136	1,111	145. I.D.—D.A.	136	1
Villages:	107	50	146. I.D.—D.A.	634	. 3
Alberta Beach	127	79	147. I.D.—D.A.	2,500	1,5
Boyle	304		149. I.D.—D.A.	122	
Clyde	221	219	Grande Prairie County		
Mayerthorpe	563	472	No. 1	8,899	10,1
Onoway	190	189	Indian Reserves	3,032	3,2
Radway	203	184	Towns:		
Sangudo	331	269	Beaverlodge	768	5
Thorhild	288	248	Fairview	1,260	õ
			Falher	802	5
ivision No. 14	15,846	14,443	Grande Prairie	6,302	2,6
78. I.D.—D.A	3,444	3,724	Grimshaw	904	
79. I.D.—D.A	2,234	3,992	High Prairie	1.743	1.1
95. I.D.—D.A.	4,696	2,561	McLennan	1.092	1.0
96. I.D.—D.A.	314	299	Peace River	2.034	1.6
109. I.D.—D.A.	1,693	1,506	Spirit River	743	5
Towns:			Villages:		
Edson	2.560	1,956	Berwyn	342	2
Villages:	- ,		Donnelly	265	
Evansburg	358		Girouxville	300	14
Wildwood	547	405	Hines Creek	360	35.1.57
17.22.1.000	0 1.		Hythe	481	
ivision No. 15	70.417	61,800	Kinuso	306	2
110. I.D.—D.A.	346	73	Manning	726	1
111. I.D.—D.A.	241	324	Rycroft	424	. 3
123. I.D.—D.A.	2	1	Sexsmith	345	5
124. I.D.—D.A.	3,216	2.853	Valleyview	973	
125. I.D.—D.A.	3,155	3.277	Wembley	272	5
126. I.D.—D.A.	2,427	2.138	weinbley	2 (2	4
120. I.D.—D.A	2,421	2,100			

				,								
	LIVE B	RTHS	S	a)			Births					
CENSUS DIVISIONS	Total	Female	Live Births in Hospitals	Illegitimate Births	Stillbirths	Marriages	Excess Births Over Deaths	Total Deaths	Hospital Deaths	Infant Deaths	Neo-natal Deaths	Maternal Deaths
ALBERTA	 35718 1834	3 17275	24838	1810	385	10117	27463	8255	572	1 963	640	12
Division No. 1	966 52			21	9	316		279	19:			
Division No. 2	2072 108			68	20	639	1623	449	32'			
Division No. 3	978 49			72	13	246		231	170			
Division No. 4	428 22	8 200	409	12	3	83		123	89			
Division No. 5	973 48	7 486	951	44	13	210	669	304	182			
Division No. 6	7865 402	7 3838	7836	400	82	2414	6040	1825	1200			
Division No. 7	1126 57			29	11	257	783	343	239	32		
Division No. 8	1978 101		1942	104	22	498	1487	491	372	2 56	39	2
Division No. 9	431 23		414	34	12	189	305	126	9:	1 13	3 9	
Division No. 10	1716 89			50	14	546	1173	543	404		31	1
Division No. 11	11436 581			551	126	3559	9265	2171	1608			
Division No. 12	1581 82		1302	126	16	319	1234	347	211			
Division No. 13	1070 57			53	5	254	720	350	240			
Division No. 14	593 30			24	7	79	454	139	93			
Division No. 15	2505 128	5 1220	2275	222	32	508	1971	534	314	1 114	1 53	1

TABLE 2—GENERAL SUMMARY OF VITAL STATISTICS FOR INCORPORATED URBAN PLACES OF 1,000 POPULATION AND OVER, ALBERTA, 7957

	LIV	E BIR	THS	s	ę.			Births			
CITY, TOWN OR VILLAGE	Total	Male	Female	Live Births in Hospitals	Illegitimate	Stillbirths	Marriages	Excess Birtho	Total Deaths	Hospital Deaths Infant Deaths Neo-natal	Deaths Maternal Deaths
Athabasca Barrhead Beverly	50 47 217	23 26 104	27 21 113	50 47 217	8 6 6	1	35 51 23	27 21 188	23 26 29	17 6 19 1 19 7	2
Blairmore Bonnyville	39 67	24 40	15 27	39 67	2 4		18 35	30 54	9 13	8 1	1
Bow Island	21	12	9	21		1	7	10	11	5 1	1
Bowness	268	129	139	268	8	2	33	243	25	17 7	3
Brooks Calgary	82 6212	3200	35 3012	81 6208	352	1 65	45 2116	62 4724	20 1488	13 1 991 146	1
Camrose	172	108	64	172	5	3	71	95	77	991 146 5	98
Camrose Cardston	85	45	40	85	4	1	120	58	27	19 2	1
Claresholm	88	42	46	88	3	1	33	69	19	15 1	1
Coaldale	81 62	29	37 33	81 54	1 5	1	32 24	72 52	9	6 4	4
Coleman	55	30	25	54		3	18	32	23	17 2	2
Devon	51	22	29	51	2		2	45	6	5 3	1
Didsbury	31 218	11 126	20 92	31 213	1 6	2	30	13 206	18 12	8 8	7
Drumheller	100	50	50	100	6	1	62	61	39	27 5	5
Edmonton	8364	4198	4166	8360	427	83	3113	6738	1626	1241 194 1	44 1
Edson	163	83	80	163	6	2	53	133	30	19 5	4
FairviewForest Lawn	102	16 45	28 57	102	3	2	17 13	30 96	14 6	8 1 3 1	1
Fort Macleod	74	38	36	73	2	1	24	42	32	24 4	3
Fort Saskatchewan	101	46	55	101	6	3	25	83	18	14 6	3
Grande Prairie Hanna	306 88	155	151 44	306 88	14	2	117	254 65	52 23	29 9	8
High Prairie	78	45	33	76	11	2	32	61	17	11 3	3
High River	49	23	26	49	3		37	21	- 28	20	
Innisfail	692	34	27 316	690	3	1	42	36	25	20 3	3
Lacombe	971	501	47	961	39	9	18 48	630	62 30	41 12 3	10
Leduc	69	29	40	69	1	1	32	58	11	8 2	2
Lethbridge	857	432	425	857	40	8	404	623	234	182 16	14
Lloydminster Magrath	118 28	57 14	61	118	6	1	69 41	96 17	22 11	16 2 7 2	1
McLennan	58	25	33	58	2		17	51	7	5 2	1
McMurray	24	13	11	24	4		6	20	4	4 2	2
Medicine Hat Nanton	575 37	309	266	573 371	14	6	290	366	209 16	147 12 14 3	7
Olds	84	44	40	84	7		45	63	21	12 3	1 1
Peace River	114	64	50	113	8	2	41	99	15	13 3	2
Pincher Creek	88 107	49 63	39 44	88 107	3	1	27 51	63 72	25 35	22 2 2 4	1 1
Raymond	46	26	20	46	2	1	17	35	11	9 3	2
Redcliff	43	19	24	43	3		1	29	14	8 1	1
Red Deer Redwater	554	282	272	553	20	7	198	458	96		10 1
Rocky Mtn. House	59 93	36	23 57	59 89	5		25	54 70	5 23	3 16 5	4
St. Albert	56	24	32	56	2		12	38	18	7 1	1
St. Paul	107	51)	56	107	6		36	84	23	16 3 35 7	3
Stettler Stony Plain	152 47	74	78 23	151	6	1	64	105	47 13	35 7 2	6
Sylvan Lake	35	24	11	35	4		15	16	19	14	1
Taber	110	64	46	110	3	1	60	73	37	28 4	4
Three Hills Vegreville	56 68	36	20	56 67	3 5		16	38	18	13 3 22 3	3
Vermilion	72	34	38	72	2	1	55 54	40 42	28 30	22 3 2 2	3 1
Vulcan	39	18	21	39	1	1	11	23	16	14 2	2
Wainwright	126	64	62	126	4		42	103	23	15 3	1
Westlock Wetaskiwin	47 141	22 75	25 66	47 141	5	5	30 87	27 86	20 55	16 42 3	2
	* *7	10	001	171	3	اد	04	00	55	42 3	4

TABLE 3—DEATHS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE, 1957

PLACE OF OCCURRENCE	9				,	PLAC	CE OF	RE	SIDE	NCE					
	Total (Occurrence)	Nfld.	P.E.I.	N.S.	N.B.	Quebec	Ontario	Manitoba	Sask.	Alberta	B.C.	Yukon	N.W.T.	U.S.A.	Other
Total (residence)	137306	3198	916	5977	4595	36234	49164	7368	6743	8255	13711	93	325	644	83
Newfoundland		3184		2		1	4							8	14
Prince Edward Is			899	2	2	2	2							4	
Nova Scotia	5976	8		5911	14	4	6	****			1	ĺ		22	5
New Brunswick	4660	1	4		4483		14	1 2	1	1	2 5			87	3
Quebec	36027	4	4	9		35656	197		1	4			2	81	25
Ontario	49451	1	1	17	21	397		38	19	7	20		4	330	
Manitoba	7395			1		5	61	7228	48	5	10		12	20	
Saskatchewan	6733			1	1	2	4		6597	60	27	1		15	
Alberta	8252	****		1	1	2	24	18		8075	47	2	25	19	
British Columbia			****	2		3	11	18	23	69	13524		1	56	10
Yukon	89					****					3	85		1	
Northwest Territories	294			4		3	1	1	72	5	_1		281	1	1
United States	583		3	15	36	112	260	39	18	29	71				

TABLE 4—DEATHS AND HOSPITAL DEATHS BY OCCURRENCE AND RESIDENCE FOR CENSUS DIVISIONS, ALBERTA, 1957

	TC	TAL I	DEATH	IS	DEAT	THS IN	HOSPI	TALS
CENSUS DIVISIONS	Total by Occurrence	Total by Residence	By Occurrence: Residence Elsewhere	By Residence: Occurrence Elsewhere	Total by Occurrence	Total by Residence	By Occurrence: Residence Elsewhere	By Residence: Occurrence Elsewhere
ALBERTA	8252	8255	177	180	5721	5731	108	118
Division No. 1	251 4444 203 102 241 1939 287 505 122 526 2545 278 255 93 461	279 449 231 123 304 1825 343 491 126 543 2171 347 350 139 534	8 49 20 15 29 241 23 109 26 119 530 18 24 15 24	54 48 36 92 127 79 95 30 136 156 87 119 61	172 321 137 75 130 1291 187 380 1987 149 144 37 247	191 327 170 89 182 1200 239 372 91 404 1608 211 240 93	10 89 11 102 478 11 13 1	23 43 45 26 63 89 62 81 124 120 99 73 109 57

TABLE 5—DEATHS AND HOSPITAL DEATHS BY OCCURRENCE AND RESIDENCE IN URBAN PLACES OF 1,000 POPULATION AND OVER, ALBERTA, 1957

	TO	OTAL	DEATE	IS	DEAT	HS IN	HOSP	ITALS
CITY, TOWN OR VILLAGE	Total by Occurrence	Total by Residence	By Occurrence: Residence Elsewhere	By Residence: Occurrence Elsewhere	Total by Occurrence	Total by Residence	By Occurrence: Residence Elsewhere	By Residence: Occurrence Elsewhere
Athabasca Barrhead Beverly Blairmore Bonnyville Bow Island Bowness Brooks Calgary Camrose Cardston Claresholm Coaldale Cold Lake Coleman Devon Didsbury Drayton Valley Drumheller Edmonton Edson Fairview Forest Lawn Fort Macleod Fort Saskatchewan Grande Prairie Hanna High Prairie High River Innisfail Jasper Place Lacombe Leduc Lethbridge Lloydminster Magrath McLennan McMurray Medicine Hat Nanton Olds Deace River Pincher Creek Ponoka Raymond Red Deer Redwater Rocky Mountain House St. Albert St. Paul Sylvan Lake Taber Three Hills Vegreville Vermilion Vulcan Walnwright Westlock Westaskiwin	59 44 45 2 200 6 6 32 1651 194 34 34 30 2185 24 4 47 55 38 17 55 38 17 57 12 24 27 7 13 12 24 100 17 55 108 2 24 46 18 36 6 18 36 6 22 27 44 46 18 36 6 28 8 46 8 8 45 86 88 45 86 88 88 88 85 86 88 88 88 88 88 88 88 88 88 88 88 88	23 269 99 111 25 200 1488 112 200 1488 112 200 162 163 162 163 163 163 163 163 163 163 163 163 163	38 25 1 1 1 1 1 1 1 1 1 1 1 1 1	277 258 8 3 6 6 20 20 20 20 20 20 20 20 20 20 20 20 20	466 400 11 19 19 25 1153 176 26 30 77 13 31 22 26 71 1834 34 34 34 35 32 23 31 172 23 31 32 23 33 172 32 33 45 45 34 46 66 40 40 26 40 26 40 26 40 26 68	17 19 19 8 8 11 17 13 991 65 5 19 15 66 67 17 1241 19 19 10 20 41 41 41 41 41 41 41 41 41 41 41 41 41	29 24 11 14 240 114 14 14 14 15 16 16 16 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17	39 1988 1172 2788 3331 122 2788 3331 122 2177 44 2288 66661 1338 411 144 5667 777 55666661 2337 7666661 12

TABLE 6—CAUSE OF DEATH BY SEX FOR CENSUS DIVISIONS (INCLUDING CITIES, TOWNS AND VILLAGES) IN ALBERTA, 1957

I. INFECTIVE AND PARASITIC DISEASES Make Ma	CAUSE OF DEATH (Intermediate List)	SEX	Total	Division No. 1	Division No. 2	Division No. 3	Division No. 4	Division No. 5	Division No. 6	Division No. 7	Division No. 8	Division No. 9	Division No. 10	Division No. 11	Division No. 12	Division No. 13	Division No. 14	Division No. 15
I. INFECTIVE AND PARASITIC DISEASES	ALL CAUSES	Male	5190	157	290	134	86	208	1114	219	328	88	337	1342	210	231	97	534 349 185
System		Total Male	148	1	9 4	6 5	2	6 4	19	4	11		4	36	22 11	8 2	2 2	18
Total Male 734 14 45 24 14 26 171 25 52 11 45 15 16 7 19 10 10 10 10 10 10 10	system A 2 Tuberculosis of meninges and central nervous system A 5 Tuberculosis, all other forms A 10 All other syptilis A12 Typhoid Fever A 13 Paratyphoid fever and other Salmonella infections A 17 Scarlet fever A 20 Septicaemia and pyaemia A 21 Diphtheria A 22 Whooping cough A 23 Meningococcal Infections A 28 Acute poliomyelitis A 29 Acute infectious encephalitis A 30 Measles A 31 Infectious hepatitis A 39 Hydatid disease A 43 All other diseases classified	Female Male	18 22 2 1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1 1 1 1 1 1 1 1	3								133 77 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1	2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
A 44 Malignant neoplasm of buccal cavity and pharynx		Total Male	1282 734	31 14	82 45	24	14	26	171	25	52	21 11	79 45	353 198 155		59 40	14	
unspecified parts of uterus Female 17 1 1 5 4 A 54 Malignant neoplasm of prostate. Male 82 1 2 6 1 2 24 3 9 1 3 A 55 Malignant neoplasm of skin Male 8 1 2 1 1 1	cavity and pharynx 4 45 Malignant neoplasm of oesophagus A 46 Malignant neoplasm of stomach 4 47 Malignant neoplasm of intestine, except rectum A 48 Malignant neoplasm of rectum A 49 Malignant neoplasm of larynx A 50 Malignant neoplasm of trachea, and of bronchus and lung not specified as secondary A 51 Malignant neoplasm of breast 5 Malignant neoplasm of cervix uteri A 53 Malignant neoplasm of other and unspecified parts of uterus A 54 Malignant neoplasm of prostate A 54 Malignant neoplasm of prostate A 55 Malignant neoplasm of prostate A 55 Malignant neoplasm of prostate A 56 Malignant neoplasm of prostate A 56 Malignant neoplasm of prostate	Female Male Female Male Female Male Female Male Female Male Female Male Female Female Female Male Female	3 13 7 119) 48 72 53 37 21 7 2 106 12 2 98 33	3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 10 2 2 3 3 3 3 7 7 5	5 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	31 3 5 2 2	2 3 3 15 9 20 15 7 3 2 1 29 7 4 24 2 2	1 5 3 1 1 1 1 1 1 2 2 2 3 3	9 5 3 1 3 1 9	5 3 3 1 2 1 1	9 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	44 22 355 122 20 12 9 6 6 3 3 12 2 12 2 12 2 12 2 12 2 12 2 1	1 8 2 1 1 1 1 1 5	6 1	3	

TABLE 6—CAUSE OF DEATH BY SEX FOR CENSUS DIVISIONS (INCLUDING CITIES, TOWNS AND VILLAGES) IN ALBERTA, 1957—Continued

CAUSE OF DEATH (Intermediate List)	SEX	Total	Division No. 1	Division No. 2	Division No. 3	Division No. 4	Division No. 5	Division No. 6	Division No. 7	Division No. 8	Division No. 9	Division No. 10	Division No. 11	Division No. 12	Division No. 13	Division No. 14	Division No. 15
A 57 Malignant neoplasm of all other and unspecified sites A Other digestive organs (155-159) B Other respiratory organs (160, 164, 165) C Urinary organs (180, 181) D Brain and other parts of nervous system (193) E Other A 58 Leukaemia and aleukaemia A 59 Lymphosarcoma and other neoplasms of lymphatic and haematopoietic system A Hodgkin's disease (201) B Other	Male Female Male Male Male Male Male Male Male M	175 179 77 69 7 4 42 15 14 18 35 73 44 27 41 26 12 9	1 3 1 1 2 1 1 1 1 1 1 1	8 5 1 3 3 1 3 2 3 3 2 3 3 2 3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 5 1 2	2 2 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	45 41 15 13 2 1 16 5 4 2 20 12 9 7 6	77 22 33 11 1	9 12 4 4 6	111111111111111111111111111111111111111	2 1 1 2 3 2 2 2 2 2	13 10 5 3 8	1 1 1 1 1 1 1 1 1 1 1	10 77 55 5 1 2 1 1 2 2 1 1 2 1 1 2 1 1 1	3	9 10 7 2 2 2 2 4 1 1 1 1 1
A 60 Benign neoplasms and neoplasms of unspecified nature III., IV. ALLERGIC DISORDERS AND ENDOCRINE METABOLIC AND BLOOD DISEASES	Female Male Female Total Male Female	17 8 12 246 130 116	18 8	11 8 3	6 2 4	2 1	1 1 6 5	47 24 23	12 8 4	8 4 4	6 3	18 8 10	7 4 4 70 36 34	1 10 6 4	12 8 4	4 1 3	16 8 8
A 61 Nontoxic goitre A 62 Thyrotoxicosis with or without goitre A 63 Diabetes mellitus A 64 Avitaminosis and other deficiency states A 65 Anaemias	Male Female Male Female Male Female Male Female	1 1 4 64 77 4 2 12	6 7	33	3	1	1	1 12 16 3	5 2	3 3	1	5 9	1 2 22 22 22 	1 3 1	2 1 1 2	1 1	2 4 2 2 2
A 66 Allergic disorders; all other endocrine, metabolic and blood diseases	Female Male Female Total	48 26	1 3	5	2 1		4	2 6 5	3	1 1	2 2	2 1 3	11 10 9	2	5	1	4
AND PERSONALITY DISORDERS A 67 Psychoses A 68 Psychoneuroses and disorders of personality A 69 Mental deficiency	Male Female Male Female Male Female Male	13 4 3 7 1 3	1		1		1 1 1 1	1				3 	2 5 1 3				
VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS	Female Total Male Female	1042 579 463	45 25 20	52 33 19	31 14 17	17 11 6	44 25 19	235 119 116	53 31 22	69 41 28	18 13 5	60 29 31	264 140 124	33 21 12	46 27 19	16 11 5	59 39 20
A 70 Vascular lesions affecting central nervous system A 71 Nonmeningococcal meningitis A 72 Multiple sclerosis A 73 Epilepsy A 77 Otitis media and mastoiditis A 78 All other diseases of the nervous system and sense organs	Male Female Male Female Male Female Male Female Male Female Male Female	525 414 4 10 11 10 8 5 1 2 30 22	22 17 1 2 3	32 17	13 15 1 2	11 6	23 17	111 104 2 1 6 1 1 6 3	29 20 1 1 1	40 26	12 5	26 30 1 1 2	123 108 1 5 5 3 2 3 9	18 11 1 	23 18 1 1 1 1 	11 5	31 15 1 1 1 3 1
VII. DISEASES OF THE CIRCULATORY SYSTEM	Total Male Female	2630 1765 865	108 64 44	161 109 52	67 41 26	49 35 14	106 80 26	531 334 197	112 71 41	172 122 50		206 130 76	700 459 241	83 54 29	121 96 25	37 33 4	137 106 31
A 79 Rheumatic fever A 80 Chronic rheumatic heart disease	Male Female Male Female	3 59 38		4 2		1	1	1 1 13 9	3 2	1 4 1		4 2	1 17 11	4 2	3	1	1 4 3

TABLE 6—CAUSE OF DEATH BY SEX FOR CENSUS DIVISIONS
(INCLUDING CITIES TOWNS AND VILLAGES) IN ALBERTA, 1957—Continued

(INCLUDING CITIES, T	OWNS A	ND V	ILL	AG	ES)	IN	AL	BER	ΓA,	195	7—	Cont	inue	i			
CAUSE OF DEATH (Intermediate List)	SEX	Total	Division No. 1	Division No. 2	Division No. 3	Division No. 4	Division No. 5	Division No. 6	Division No. 7	Division No. 8	Division No. 9	Division No. 10	Division No. 11	Division No. 12	Division No. 13	Division No. 14	Division No. 15
A 83 Hypertension with heart disease A 84 Hypertension without mention of heart A 85 Diseases of arteries A 86 Other diseases of	Male Female	1402 585 80 48 69 90 29 25 102 61 22 15	51 35 3 1 1 1 7 3 2 1	87 36 2 6 9 1 9 3	36 14 1 3 2 4 	30 9 4 1 2 2	1 5 2	260 141 13 10 18 19 4 2 22 12 3 3	54 28 8 2 1 7 1 4 1	99 32 8 5 1 3 4 6 4 1	26 7 1 3 2 1 	111 56 5 2 4 1 2 4 7 1 3	365 160 11 13 19 24 9 10 28 21 9	2 1	75 12 2 4 5 4 2 2 7 2 2 1	28 3 2 1 1 1	71 16 14 1 6 3 3 3 7 4 1
VIII. DISEASES OF THE RESPIRATORY SYSTEM	Total Male Female	620 384 236	17 8 9	27 16 11	21 11 10	6 5 1		120 79 41	26 19 7	32 18 14	8 7 1	27	153 93 60	25	28 19 9	15 12 3	
A 87 Acute upper respiratory infections A 88 Influenza A 89 Lobar pneumonia A 90 Bronchopneumonia A 91 Primary atypical, other and unspecified pneumonia A 92 Acute bronchitis A 93 Bronchitis, chronic and unqualified A 94 Hypertrophy of tonsils and adenoids A 95 Empyema and abscess of lung A 96 Pleurisy A 97 All other respiratory diseases IX. DISEASES OF THE DIGESTIVE SYSTEM	Male Female Male Temale Male Female Male Temale Male Female Male Male Male Male Male Male Male M	8 8 4 4 4 688 677 599 1300 777 599 453 22 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	24 4 1 22 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3	1 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 4 2 2 3 3 2 2	3 3	1 4 4 3 1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1	1	100 33 11 11 11 11 11 11 11 11 11 11 11 11	1	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	85 5 12 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 12 15 15 15 15 15 15 15 15 15 15 15 15 15	1	5 2 2 1 1 6 5 4 4 	11 11 13 14 11 11 11 11 11 11 11 11 11 11 11 11	1
A 99 Ulcer of stomach A100 Ulcer of duodenum A101 Gastritis and duodenitis A102 Appendicitis A103 Intestinal obstruction and hernia A104 Gastro-enteritis and colitis, except diarrhoea of the newborn. A105 Cirrhosis of liver A106 Cholelithiasis and cholecystitis A107 Other diseases of digestive system X. DISEASES OF THE	Female Male	16 5 5 20 6 6 7 12 12 12 12 12 12 12 12 12 12 12 12 12	5 1 2 1 1 2 1 2 3 1 2 3 1 2 3 4 5 5 6 6 6 7 8 9	32 22 11 11 14 14	1	1				1 2 2 3 1 2 2 3 3 1				3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 2 1 2 3	2
A 108 Acute nephritis A109 Chronic, other and unspecified nephritis A110 Infections of kidney A111 Calculi of urinary system A112 Hyperplasia of prostate A114 Other diseases of genito-urinary system	Male Female Male Female Male Female	94 38 33 20 22 22 11	2 1 1 2 2 2 3 3	7 5	2 1		22			1 2 2			7 2211 1	1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 1 2 1 2 1 1 1 1 1	1 1	

TABLE 6—CAUSE OF DEATH BY SEX FOR CENSUS DIVISIONS (INCLUDING CITIES, TOWNS AND VILLAGES) IN ALBERTA, 1957—Continued

			TIAD.						111111				COII					
	CAUSE OF DEATH (Intermediate List)	SEX	Total	Division No. 1	Division No. 2	Division No. 3	Division No. 4	Division No. 5	Division No. 6	Division No. 7	Division No. 8	Division No. 9	Division No. 10	Division No. 11	Division No. 12	Division No. 13	Division No. 14	Division No. 15
XI.	DELIVERIES AND COMPLICA- TIONS OF PREGNANCY, CHILDBIRTH, AND THE PUERPERIUM	Total	12		1	1		1	1		2		1	2	2			1
	Sepsis of pregnancy, childbirth and the puerperium	Female	1		1													
	Toxaemias of pregnancy and the puerperium Haemorrhage of pregnancy	Female	3					1	1		1							****
A118	Abortion without mention of sepsis of toxaemia	Female Female		į.									1	1	1			****
A119 A120	Other complications of pregnancy,	Female Female	1											ī			•	
XII.,	childbirth and the puerperium XIII. DISEASES OF THE	Total	57	3	3	2		3			5	1	3		6	3	2	3
	SKIN AND MUSCULO- SKELETAL SYSTEM	Male Female	26 31	1 2	1 2			1	9	1	1	1	2	1 4	2	1 2	1	2
	Infections of skin and subcutaneous tissue	Male Female Male	3 9	 1		1		1	1 1		2		 1	1			1	2
	spondylitis Osteomyelitis and	Female Male	12	1	2	1		1 1	2		1		1	2	1	2		
A126	All other diseases of skin and musculoskeletal system	Female Male Female	10 16	 1	1				6	1	1	1	1		2	1	1	 1
XIV.	CONGENITAL MALFORMATIONS	Total Male Female	189 108 81	5 3 2	2	7 3 4		7 6 1	39 23 16	7 5 2	8 4	1 1	14 10 4	69 41 28	8 4 4	3 2 1	2	12 4 8
	Spina bifida and meningocele	Male Female	7 5						2 1				1	4	1 2			
	Congenital malformations of circulatory system All other congenital malformations	Male Female Male Female	43 33 58 43	1 1 2 1	1 2 1 2	1 4	1	3 3	10 6 11 9	1 4 1	2 2 2	1	5 2 5 1	12 14 25 13	1 1 1	1 1 1	2	2 1 2 7
XV.	CERTAIN DISEASES OF EARLY INFANCY	Total Male Female	541 300 241	14 5 9	28 20 8	18 7 11	9 7 2	16 8 8	102 51 51	15 9 6	35 24 11	8 5 3	25 17 8	156 85 71	30 13 17	16 9 7	17 7 10	52 33 19
	Birth injuries	Male Female	46 39	4	1	1 2	1	1	6	4	2	1	2 3	14 13	2 2	1	3	7
	Infections of the	Male Female Male	93 62 24	3	11	3	1 1 1	3	14 10 3	1	9 3 2	2	8	28 23 10	3 1	3	1 2 1	4 4 6
		Female Male Female	16 16		1 3	1	2	2	2	1	2	1	2	6	1		1 2	3 2
	All other defined diseases of early infancy	Male Female	10 11		1				1 2 3			1		2 3 2	1 1 1		1 2	2 2
MIOO	Ill-defined diseases peculiar to early infancy, and immaturity unqualified	Male Female	111 106	1 2	4	3	2	6	25 24	4	9	1	5	28 25	6	4	1 3	12 9
XVI.	SYMPTOMS, SENILITY, AND ILL-DEFINED CONDITIONS	Total Male Female	308 199 109	1	1	5 3 2	1	3 2 1	180 122 58	11 5 6	8 5 3	2 2	5 3 2	67 45 22	6 5 1	7 2 5	1	10 3 7
	Senility without mention of psychosis	Male Female	10 23	1			1	1	2		1		1	5 8	2	2		
	causes	Male Female	189 86		1	3		2	120 52	5	2	2	3	40 14	3	3	1	3 5
EXVI	I. ACCIDENTS, POISONINGS AND VIOLENCE (CLASSIFI- CATION ACCORDING TO EXTERNAL CAUSE)	Total Male Female	745 586 159	18	49 36 13	16 14 2	13 10 3	29 25 4	123 95 28	32 28 4	37 29 8	15 12 3	49 40 9	199 157 42	39 33 6	34 21 13	18 13 5	70 55 15
	Motor vehicle accidents	Male Female	204	8	18	5	3	13	29	12	14	4	16	54 10	8	3	2	15 5
В	(810-825) Non-traffic	Male Female Male Female	189 41 15 2	3	16 3 2	1 1	2 1	13	24 7 5 1	10 1 2	14	4	16	52 10 2	7 1 1	1 1 1		15 5

ANNUAL REPORT, 1957

TABLE 6—CAUSE OF DEATH BY SEX FOR CENSUS DIVISIONS (INCLUDING CITIES, TOWNS AND VILLAGES) IN ALBERTA, 1957—Continued

CAUSE OF DEATH (Intermediate List)	SEX	Total	Division No. 1	Division No. 2	Division No. 3	Division No. 4	Division No. 5	Division No. 6	Division No. 7	Division No. 8	Division No. 9	Division No. 10	Division No. 11	Division No. 12	Division No. 13	Division No. 14	Division No. 15
		Ĭ	ā		Ď	Q	a	Ω			Ω	Ω	Ω	Ω	D		_ D
AE139 Other transport	Male	36		3	2		1	9		1		1		3		1	5
AE140 Accidental poisoning	Male	3 28		1		1	1	1 4		1		1	7	3		4	4
AE141 Accidental falls	Female Male	7 51	4			1		10	1			8	3 16	1	2	1	3
AE142 Accident caused by	Female Male	32	1	3			2	8 2	1	2		4 4	13 9	3	3 4	2	2 2
Machinery	Female Male	21	1		 1		1	$\frac{1}{2}$		1		1			6	1	2
plosion of combustible material AE144 Accident caused by hot	Female	15						1				1	3		7		3
substance, corrosive liquid,	Male Female	3				1	, ,	1					1	1			
AE145 Accident caused by	Male	14		1	1			2		1	1			2			3
firearm	Male	36		2			3	8		2	2	2	4	6	1	1	3
and submersion	Female Male	69			1	4	2	9 2	6	3				3	3	1	6
AE148 Suicide and self-inflicted	Female Male	85	2		2	1		19	4	4	2	3	22	3			11
AE149 Homicide and injury purposely	Female	20	1			1			-	_			3	i -		1	
inflicted by other persons (not in war)	Male Female	6							1	1	1	_	2				
AE150 Injury resulting from operations of war	Male Female	1															1
NXVII. ACCIDENTS, POISONINGS								100		0.5		100	100	200	24	10	70
AND VIOLENCE (CLASSIFI- CATION ACCORDING TO NATURE OF INJURY)	Total Male Female	745 586 159	18	36	14	10	25	95	28	37 29 8		40	157	33	21	13	55
AN138 Fracture of skull		110		7		2	9								2	2	
AN139 Fracture of spine	Female Male	17 29				. 1		2					11	1		1	5
and trunk AN140 Fracture of limbs	. Female . Male	27	2					5				4	6		2		2
AN143 Head injury (excluding	Female Male	36				2		9	5		2	5	24	7	3 2	1	8
fracture) AN144 Internal injury of chest,	Female Male	134		7	1 5		L 5		3 2		3	12		8			13
abdomen, and pelvis	Female Male	24		2			1 1		2 1								
wounds AN146 Superficial injury, contusion		3									. 1	L			-		. 2
and crushing with intact skin	Male Female	1 3	L 2								1				i		
AN147 Effects of foreign body	Male	13	3			:	2		3 1	. 1	L		- 3		1 1	ļ <u>-</u>	. 2
entering through orifice	Male	2	3	1 3		1 :	1 1	lj á	3	. 3	i		. (3 3			. 1
AN149 Effects of poisons	Female Male	4	5		L		1 3	LI (1 6 : 3 :	2 5	2		2 1	3	3 3		
AN150 All other and unspecified effects of external causes	Female Male Female	111	1) :	2 (2	5 2		1 4			3 3	3	BI 2	2 2	12

TABLE 7—CAUSE OF DEATH BY SEX FOR URBAN PLACES OF 5,000 POPULATION AND OVER IN ALBERTA, 1957

CAUSE OF DEATH (Intermediate List)	SEX	Total	Bowness	Calgary	Camrose	Edmonton	Grande Prairie	Jasper Place	Lethbridge	Medicine Hat	Red Deer
ALL CAUSES	Total Male Female	3869 2337 1532	25 14 11	1488 892 596	77 40 37	1626 1004 622	52 34 18	62 36 26	234 138 96	209 113 96	96 66 30
I. INFECTIVE AND PARASITIC DISEASES	Total Male Female	53 34 19	2	14 13 1		29 17 12		3 1 2	5 1 4		
A 1 Tuberculosis of respiratory system A 2 Tuberculosis of meninges and central nervous system A 5 Tuberculosis, all other forms A 10 All other syphilis A 20 Septicaemia and	Male Female Male Female Male Female Male Female Male	200 7 1 1 1 1 5	1	6 1 2		12 7 1 3			1		
pyaemia A 21 Diphtheria	Female	1				1			1		
A 23 Meningococcal infections A 28 Acute poliomyelitis A 29 Acute infectious encephalitis A 32 Measles	Female Male Female Male Female Male Female	1 1 1 1 1 2		1		 1 1		1 1			
A 34 Infectious hepatitis	Female Male Female	1 4		1 1				1			
A 43 All other diseases classified as infective and parasitic	Male Female Total	657	2	259	11	281	6	11	1	23	20
A 44 Malignant neoplasms of buccal	Male Female Male	351 306	1	141 118	9	156 125	5	5	18 26	9	13 7
cavity and pharynx	Female Male	3 6		2 2		3			1	ī	
oesophagus A 46 Malignant neoplasm of stomach	Female Male Female	46 23		3 12 8	1	25 10		1	5 2	1 3	2
A 47 Malignant neoplasm of intestine, except rectum	Male Female Male	39 29 19		16 12 7	1	16 12 7	1 1 1	2	2 2	1	3
rectum A 49 Malignant neoplasm of larynx	Female Male Female	10 5 1		1 1	1	3			1	1	1
A 50 Malignant neoplasm of trachea, and of bronchus and lung not specified as secondary A 51 Malignant neoplasm of breast	Male Female Male Female	53 5 2 63	1	25 4 1 25		22 1 1 31			3	2	
A 52 Malignant neoplasm of cervix uteri A 53 Malignant neoplasm of other and	Female	17		5		6		2	1	1	
unspecified parts of uterus A 54 Malignant neoplasm of	Female	6		3		2				1	
prostate	Male Male Female	36		15 1	1	14	1	1		1	4
A 56 Malignant neoplasm of bone and connective tissue	Male Female	3 2		3		2					
A 57 Malignant neoplasm of all other unspecified sites A Other digestive organs (155-159) B Other respiratory organs (160, 164, 165) C Urinary organs (180, 181) D Brain and other parts of nervous system (193)	Male Female Male Female Male Female Male Female Male Female Male Female	92 101 31 41 6 1 26 8 9	1	39 36 13 11 2 1 13 4 4	1	44 40 15 16 4 11 2 4 5		2	1 2	3	5 1 2 1
E Other	Male Female	20 41		2 7 18		10 17			2 2 2 2	1	3 2
A 58 Leukaemia and aleukaemia	Male Female	20 16		11 9		4 4		1			2

TABLE 7—CAUSE OF DEATH BY SEX FOR URBAN PLACES OF 5.000 POPULATION
AND OVER IN ALBERTA, 1957 (Continued)

AND OVER IN A	LBERTA,	1957	(Co	ntinu	(ed						
CAUSE OF DEATH (Intermediate List)	SEX	Total	Bowness	Calgary	Camrose	Edmonton	Grande Prairie	Jasper Place	Lethbridge	Medicine Hat	Red Deer
A 59 Lymphosarcoma and other neoplasms of lymphatic and haematopoietic system A Hodgkin's disease (201) B Other A 60 Benign neoplasms and neoplasms of unspecified nature	Male Female Male Female Male Female Male Female	18 19 4 5 14 14 4 6		6 6 1 2 5 4 1	2	10 9 2 2 8 7 3	1	1	2	1 1 1	
III., IV. ALLERGIC DISORDERS AND ENDOCRINE METABOLIC AND BLOOD DISEASES	Total Male Female	105 51 54	•	39 19 20		46 23 23	2		3 2 1	5	1
A 61 Nontoxic goitre A 63 Diabetes mellitus A 64 Avitaminosis and other deficiency states A 65 Anaemias A 66 Allergic disorders; all other endocrine, metabolic and blood diseases V. MENTAL, PSYCHONEUROTIC, AND	Male Female Male Female Male Female Male Female Male Female Total	1 1 30 38 3 2 1 15 14		10 15 3 		1 15 15 15 17 7	2		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2	1
A 67 Psychoses	Male Female Male Female Male Female Male Female	8 1 1 1 5 		1		5				1	****
VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS	Total Male Female	484 254 230	2	202 101 101	14 7 7	182 98 84	7 4 3	2	15	18	11 9 2
A 70 Vascular lesions affecting central nervous system A 71 Nonmeningococcal meningitis A 72 Multiple scierosis A 73 Epilepsy A 77 Otitis media and mastoiditis A 78 All other diseases of the nervous system and sense organs	Male Female Male Female Male Female Male Female Male Female Male Female	229 208 1 5 6 9 3 1 15 7		93 89 2 1 6 1	77	84 77 1 3 4 3 2 7	4 3			15	8 2
VII. DISEASES OF THE CIRCULATORY SYSTEM	Total Male Female	1245 783 462	5 4 1	419 252 167	24 15 9	557 361 196	16 12 4		63	46	32 22 10
A 79 Rheumatic fever A 80 Chronic rheumatic heart disease A 81 Arteriosclerotic and degenerative heart disease A 82 Other diseases of heart A 83 Hypertension with heart disease A 84 Hypertension without mention of heart A 85 Diseases of arteries A 86 Other diseases of circulatory system	Male Female Male	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 77 196 124 10 8 13 16 3 1 21 21 8 2	15 8	1 11 9 287 128 10 9 16 23 6 6 22 19 8 2	9 3 3	1	25	2 38 29 2 1 1 1 1 3 3 2 1	18 7 1 1 1 1
VIII. DISEASES OF THE RESPIRATORY SYSTEM	Total Male Female	257 162 95	2 1 1	99 66 33	9 6 3	107 68 39		4 2 2	16 8 8	7	8 4 4
A 87 Acute upper respiratory infections	Male Female	3 2		1		1 2			1		

TABLE 7—CAUSE OF DEATH BY SEX FOR URBAN PLACES OF 5,000 POPULATION AND OVER IN ALBERTA, 1957 (Continued)

CAUSE OF DEATH (Intermediate List)	SEX	Total	Bowness	Calgary	Camrose	Edmonton	Grande Prairie	Jasper Place	Lethbridge	Medicine Hat	Red Deer
A 88 Influenza A 89 Lobar pneumonia A 90 Bronchopneumonia A 91 Primary atypical, other and unspecified pneumonia	Male Female Male Female Male Female Male Female	19 22 9 8 52 26 24 21	1	4 2 5 3 25 16 13 6	2 1 2 	10 10 3 3 19 5 7		1 1 1	3 2 2	2 3 1 1 2 1	1 2 1
A 92 Acute bronchitis A 93 Bronchitis, chronic and unqualified A 94 Hypertrophy of tonsils and adenoids A 95 Empyema and abscess of lung A 97 All other respiratory diseases	Male Female Male Female Male Female Male Female Male Female Male Female	20 1 1 1 1 2 1 28 9		1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	10 1 13 4		1	2	1	1
IX. DISEASES OF THE DIGESTIVE SYSTEM	Total Male Female	113 75 38	1	49 34 15	6 3	42 28 14	2 1 1	2 2	5	5 3 2	1 1
A 99 Ulcer of stomach A100 Ulcer of duodenum A102 Appendicitis A103 Intestinal obstruction and hernia A104 Gastro-enteritis and colitis, except diarrhoea of the newborn	Male Female Male Female Male Female Male Female Male Female	4 2 10 3 6 1 7 5	 1	3 1 5 2 2 1 2 4 2	1	1 1 4 1 3 1 4 3 2	1		1	2	
A106 Cirrhosis of liver A106 Cholelithiasis and cholecystitis A107 Other diseases of digestive system	Male Female Male Female Male Female	18 9 5 7 16 6		2 7 3 2 2 10	3	9 2 1 3 2		1	2	1 1	1
X. DISEASES OF THE GENITO-URINARY SYSTEM	Total Male Female	65 48 17	1	28 20 8		23 14 9		1	4	7 7	1
A108 Acute nephritis A109 Chronic, other and unspecified nephritis A110 Infections of kidney A111 Calculi of urinary system	Male Female Male Female Male Female Male	1 19 9 9 5 4	1	1 8 5 1 1 3		5 4 3 4		1	2 1 	2	
A112 Hyperplasia of prostate	Female Male Male	8		3		5				2	
genito-urinary system XI. DELIVERIES AND COMPLICATIONS OF PREGNANCY, CHILDBIRTH, AND THE PUERPERIUM	Female	2		1		1					1
A118 Abortion without mention of sepsis or toxacmia	Female Female	1				1					
XII., XIII. DISEASES OF THE SKIN AND MUSCULO-SKELETAL SYSTEM	Total Male Female	22 8 14		13 5 8	1	3			1 1	3 1 2	1 1
A121 Infections of skin and subcutaneous tissue A122 Arthritis and spondylitis	Male Female Male Female	1 2 1 4		1 1 2		1				1 1	
A126 All other diseases of skin and musculo-skeletal system	Male Female	8		5	1	1			1	1	1

TABLE 7—CAUSE OF DEATH BY SEX FOR URBAN PLACES OF 5,000 POPULATION AND OVER IN ALBERTA, 1957 (Continued)

CAUSE OF DEATH (Intermediate List)	SEX	Total	Bowness	Calgary	Camrose	Edmonton	Grande Prairie	Jasper Place	Lethbridge	Medicine Hat	Red Deer
XIV. CONGENITAL MALFORMATIONS	Total Male Female	103 59 44		34 20 14	2 1 1	54 33 21		2 1 1	4	4 3 1	3 1 2
A127 Spina bifida and meningocele A128 Congenital malformations of circulatory system A129 All other congenital malformations	Male Female Male Female Male Female	4 2 19 18 36 24		1 8 5 11 8	1	3 8 9 22 12		1 1	2	1 2 1	1 1 1
XV. CERTAIN DISEASES OF EARLY INFANCY	Total Male Female	238 128 110	3 2 1	80 38 42	3 2 1	110 58 52	6 2 4	10 8 2	12 9 3	6 2 4	8 7 1
A130 Birth injuries A131 Postnatal asphyxia and atelectasis A132 Infections of the newborn A133 Haemolytic disease of newborn A141 other defined diseases of early infancy of early infancy, and immaturity unqualified.	Male Female	19 22 45 30 9 5 5 2 4 4 46 47	1	4 8 10 8 2 1 1 2 2 19 23	1	10 10 21 16 7 3 2 1 2 2 16 20	1		1 6 2	2 1 2	5
XVI. SYMPTOMS, SENILITY, AND ILL-DEFINED CONDITIONS	Total Male Female	225 155 70	4 2 2	159 111 48	1	53 38 15	1	3 1 2	1 1	1	2 1 1
of psychosis	Female Male Female	14 148 56	2 2	109 42	1	6 34 9	1	1 2	i	1	1
EXVII. ACCIDENTS, POISONINGS AND VIOLENCE (CLASSIFICATION ACCORDING TO EXTERNAL CAUSE)	Total Male Female	291 221 70	3 1 2	1	3	131 103 28 34	12 8 4	2	17 11 6	15 11 4 5	
AE138 Motor vehicle accidents A Traffic accidents (810-825) B Non-traffic accidents AE139 Other transport accidents AE140 Accidental poisoning AE141 Accidental falls AE142 Accident caused by machinery AE143 Accident caused by fire and	Male Female Male	72 20 69 20 3 3 19 2 2 9 2 28 24 3 3	1	19 7 17 7 2 9 9 6	1 3	5 34 5 7 4 1 12 11 3	2 2 2	1	3 2	3 5 3 3	5 1
explosion of combustible material AE144 Accident caused by hot substance, corrosive liquid, steam and radiation AE145 Accident caused by firearm AE146 Accidental drowning and submersion	Female Male	1001		1 1 5		1	1	1		1	
AE147 All other accidental causes AE148 Suicide and self-inflicted injury AE149 Homicide and injury purposely inflicted by other persons (not in war)	Male Female Male Female Male Female	24 5 41 10 4 2		18 18		14 4 19 4 3 2	2	1		1	1
NXVII. ACCIDENTS, POISONINGS AND VIOLENCE (CLASSIFICATION ACCORDING TO NATURE OF INJURY)	Total Male Female	291 221 70	1	72	3	131 103 28		3 6	11	. 11	6
AN138 Fracture of skull	Male Female	45 11				20	1	1	1 1		

TABLE 7—CAUSE OF DEATH BY SEX FOR URBAN PLACES OF 5,000 POPULATION AND OVER IN ALBERTA, 1957 (Continued)

CAUSE OF DEATH (Intermediate List)	SEX	Total	Bowness	Calgary	Camrose	Edmonton	Grande Prairie	Jasper Place	Lethbridge	Medicine Hat	Red Deer
AN139 Fracture of spine and	Male	9		2		5		1		1	
trunk	Female Male	2 14				5 2 5 8			2	2	
ATTI-O Placture of Initios	Female	21		4	1 2	8	1		2	1	
	Male	24		5		14	1	1	1	1	1
	Female	8		2		5	2			1	
	Male	44		12		20	2	1	2	4	3
abdomen, and pelvis		7		3		3	2		1		
AN145 Laceration and open wounds	Male	3	• • • • • • • • • • • • • • • • • • • •	3							****
	Male	6		3			1				
through orifice						2 2	1				****
AN148 Burns	Male	2		2		4			3		****
	Female	5		1		1		2	1		
AN149 Effects of poisons	Male	20		6		10	2		1		1
	Female	6		3		2			1		
AN150 All other and unspecified effects	Male	47		17	1	23	1	2	1	2	
of external causes	Female	7	1	3		3					

1957
ALBERTA.
Y AGE
SEX. BY
E AND
CAUSE
RV
THE
- DEA
H. S.
TARLES

TABLE		CAUSE OF DEATH (Intermediate List)	ALL CAUSES	I. INFECTIVE AND PARASITIC DISEASES	A 1 Tuberculosis or respiratory system System Tuberculosis of meninges and central nervous system forms A 10 All other syphilis A 12 Typhoid fever A 21 Salmonella infections A 22 Septicaemia and pyaemia A 21 Diphtheria A 22 Whooping cough A 23 Meningococcal infections A 29 Acute pollomyelitis A 32 Measles A 32 Measles A 32 Measles
8		SEX	Total 8 Male 55 Female 3	Total Male Female	Male Female Female Female Female Male Male Male Male Male Female Male Female Male Female Male
EAT		Total Under I year	8255 9 5190 5 3065 4	148 92 56	<u> </u>
DEATHS, BY CAUSE AND SEX,		1 year	963 76 531 41 432 35	04r	
Z C		2 years	21 21 22 20	844	H
AUSE		3 years	988	H H	
AN		4 years	13 13	00	
D SE		5-9 years 10-14 years	67 26	1336	
X,		15-19 years	49 80 31 53 18 27	0 0	
BY A(20-24 years	104	70.00 90.44	πα
AGE, A		Z5-29 years	113 83 30	P 0110	90 H
ALBERTA, 1957	AGE	30-34 years	121 1 1 42	P 0 0 7	е н н н н н н н н н н н н н н н н н н н
KIA,		40-44 years	134 186 84 123 50 63	<u>040</u>	
1957		45-49 years	6 235 3 153 3 82	400	- - - - - -
		20-54 years	369 234 135	H-100	∞нн
		55-59 years	457 311 146	00	F
		65-69 years	595 8 382 5 213 2	1000	ян н н н н н н н н н
		70-74 years	831 1080 572 726 259 354	2000	
		75-79 years	0 1116 6 721 4 395	16 10 10 6 6 4	44 44 4
	-	80-84 years	849 515 334	00	8
	-	+ 58	720 373 347	410	TH
ŀ	1	Not stated	99 ;	ININUA	

TABLE 8 — DEATHS, BY CAUSE AND SEX. BY AGE. ALBERTA, 1957 (Continued)

												AGE									
CAUSE OF DEATH (Intermediate List)	SEX	Total	Under 1 year	l years	3 years	4 years	5-9 years	10-14 years	15-19 years	20-24 years	25-29 years	30-34 years	40-44 years	45-49 years	50-54 years	55-59 years	60-64 years	65-69 years		70-74 years	75-77 years 75-79 years 80-84 years
A 34 Infectious hepatitis A 39 Hydatid disease A 43 All other diseases classified as infective and parasitic	Male Female Male Female Male	410 1104	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						PILIT	IH H		ППППППППППППППППППППППППППППППППППППППП				7	17 1111				H H
II. NEOPLASMS	Total Male Female	1282 734 548	H233	00 to 10	m + €	2000	8000	0104	900	9734	000	14	80 21 21 22	40 74 16 36 24 38	25.83	132 70 62	146 66 80	163	135		9 156 103 5 110 62 4 46 41
A 44 Malignant neoplasm of buccal cavity and pharynx A 45 Malignant neoplasm of oesophagus A 46 Malignant neoplasm	Male Male Female Male Male	13				-				11111					H 10H00	10 10	H H H OH	HH 8	18	0 :0 Hg	
A 47 Malignant neoplasm of intestine, except rectum A 48 Malignant neoplasm	Female Male Female Male	22328	1111		 					H	-	-	N .	H44		2760	<u>-004</u>	6 57 50	31°C		വയവ
Malignant neoplasm	Female Male Female	72.2			111				11			11				ΩH	w c	ro H	3		
A 50 Malignant neoplasm of trachea, and of pronchus and lung not specified as secondary	Male	106		· 									e e	4		21	16	13	23		15 4
A 51 Malignant neoplasm of breast	Male	30.08				1 1			1 1		-		1	1 15	71-0	10	1 10	1 17	217		23 10
A 52 Malignant neoplasm of of cervix uter. A 53 Malignant neoplasm of other and	Female	8									1	١ :				2 10	4	- 01	1		
unspecified parts of uterus 54 Malignant neoplasm	Female	17	-	-					-	-	-				Н	8	70		27		N
	Male Male Female	% ⁴	11	11		 				H		Н				н ; -	9 :	12	15		22 13
A 56 Malignant neoplasm of bone and connective tissue	Male Female	0.0		-			N		1 1	1		F		 		100	: :	-	1,-		

ANNUAL REPORT, 1957	20
	11 11111
8044	
410 0 1 0 4 0 40 0 1 0 1 844 1 1 0 0 0 0 0 0	
811888 41 081844 144 488 1 Hell 44004	
\$25544425444 4004440 40 1 8882 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
877201 100 100 0 0 0 0 1 1 1 1 1	
4800-1-01-10000004001-00 0 500 1-00 1-00 00	NH NH
11000 1 1011110000140011100111 4000 1 44 1 1 104 40	מה ההמ
08041110 100001111011 0 044 1000 101 H	F F
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	H H
рцаюн н <u>манаю</u> ю и н ни юми ми п	H H
00HH	0 0
4 H	
N	
-	
-	
8 8 H 8 1 1 1 1 1 1 1 1 1	
HQ	
7	
RH	
m 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	m m
57775 66977 6797	E4 685748
	0 0 0 0
Male Female Male Male Male Male Male Male Male M	Male Female Male Female Male Male Male
A CONTRACTOR OF THE CONTRACTOR	
of cring	
other neopla. It is system. It	ES ES
Walignant neoplasm of all oh unspecified sites Other 155-159 State 156, 165) Thrany organs (160, 164, 165) Thrany organs (160, 181) Thrany organs (180, 181) Thrany organs Thrany organs (180, 181) Thrany organs Thrany	PERSONALITY DISORDE Psychoses and disorde of personality Mental deficiency
rgan rgan rgan rgan and ot or or ot od of	ISO I die
ant neoplasm of all lifed sites biggestive organs respiratory organs 164, 165) organs 181, organs and other parts of a system (193) organs and other stic and haematopole in's disease (201) organs and other neoplasms and neoffied hature respiratory bigging bigging bigging bigging and other organics with or the goltre organics and other organics and other minesis and other minesis and other minesis and other mory states has bigging and blood disease or beging and blood disease or begins and blood disease or begins or begin the begins or begins or begins or begins or begins or begins or	x D
sites sites sites of the or th	OSes Ulity Ccien
nnt in the control of	NA ses neur sona defi
Malignant neoplasm of all unspecified sites Other respiratory organs (165, 159) Other respiratory organs (160, 164, 165) Other youngans (180, 181) Other and other parts of nervous system (183) Other Leukaemia and aleukaemia Lymphosarcoma and other lymphatic and haematopole Hodgkin's disease (201) Other Unmphosarcoma and other Iymphosarcoma	PERSONALITY Psychoses Psychoneuroses of personality Mental deficien
A Malignant neoplasm of all unspecified sites A Other respiratory organs C Urinary organs C Urinary organs C Urinary organs (160, 164, 165) C Urinary organs C Urinary organs C Urinary organs (181) C Urinary organs C Diabetes mellitus C Urinary organs C Urinary	A 67 Psychoneuroses and disorders of personality A 69 Mental deficiency
A 57 Malignant neoplasm of all other unspecified sites A Other disestive organs C UGO. 164. 165) C Urmary organs A 59 Lymphosarcoma and other neoplasms A 60 Benign neoplasms and neoplasms Unspecified nature B Other A 60 Benign neoplasms and neoplasms Unspecified nature A 60 Benign neoplasms and neoplasms C ENDOCONISORDERS AND AND B CLODD DISEASES A 61 Nontoxic goltre C Without goltre A 63 Diabetes melitus A 64 Avitaminosis and other C deficiency states A 65 Antaminosis and other C deficiency states A 66 Antaminosis and other C deficiency states A 67 Antaminosis and other C deficiency states A 68 Antamino	A 67 Psychoneuroses and diso of personality A 68 Psychoneuroses and diso of personality A 69 Mental deficiency

_
٦
7
ē
÷
2
Contin
_
1957
5
-
Ø
E
R
Œ
Ω.
LRERTA
V
AGE
Ç
⋖
BY
~
-
70
AND SEX
9
Z
Ø
F-3
H
5
H
2
0
X
BY CAUSE
DEATHS.
Ą
四
P
1
1
∞
6
ABLI
B
V
L

	1 1 1	1 1 2 1 1						
Not stated								
+ 58		69	4	319 172 147	1 1 2	120	s rue rue	SHOH
80-84 years	167	889		386 237 149	1100	178 108 16	n on on o	842
2169 years	216 125 91	H		475 314 161	1900	249 116 18 12	410846	GF 94
2189₹ ₽7-07	167 107 60	58	1 100	429 289 140				
87a9y 98-38	2000	55.84	100	349 254 95		• •		
60-64 years	28 29 24	12 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	64	231 172 59	00 10	139 40 139	004101	-0100
25-59 years	43	24 1142	4	157 123 34	11-0	98446	04100	240H
50-54 years	488	100	N N	117 88 29	144	16	25-14-	1 101
45-49 years	17	בשרן ו מימי	н [н]	67 51 16	0000	6 11	2000	
40-44 years	8228	00 00 01 0	1	1382	4.00	8 m	ППП	по
35-39 years	00 17 00	41 110		27.5	(0)	96 14	1111	ा न
30-34 years	111	04 wH	III I	400	1 000	онн <u>:</u>	- -	1 <u> </u> H
Z5-29 years	44	H H C	1	ರಿಣರು		מחח !		H
20-24 years	401	0	11111	984	HHH	101	H	-
15-19 years	ন্ন			es es	ППП			
10-14 years	<u>10 64 60</u>		7	н		H		
5-9 years	м но		ПНН	0HH	HH			
4 years	ㅋ [ㅋ							
S years	m m	1 0	-					
Z years	<u>64 64</u>	-	H	111	1111			111
1 year	481		11111	н н		H		111
Under 1 year	10	Hr.10	H HH					111
LatoT	1042 579 463	414 414 10 10 10 8	Banhar	2630 1765 865	382002	285 285 80 69	102329	1282
×	Je Je	le le	le le	Je	le le	le le	ele le	e e
SE	Total Male Fema	Male Fema Male Fema Male Fema	Fema Male Fema Male Fema	Total Male Fema	Male Fema Male Fema	Male Fema Male Fema Male	Fema Male Fema Male	Femal Male Femal
CAUSE OF DEATH (Intermediate List)	VI, DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS	A 70 Vascular lesions affecting A 71 Normeningcooceal A 72 Nuthipe sclerosis A 73 Epilepsy	A 77 Otitis media and mastoiditis A 78 All other diseases of the nervous system and sense organs	VII. DISEASES OF THE CIRCULATORY SYSTEM	A 79 Rheumatic fever A 80 Chronic rheumatic A float disease A rhenicsclondic and decensation	83 82	A 84 Hypertension without mention of heart A 85 Diseases of arteries	A 86 Other diseases of circulatory system
	70481 70481 70481 70481 704812 70-14 years 70-24 years 70-34 years 70-64 years 60-64 years 60-64 years 70-74 years 70-74 years	Total Tota	CAUSE OF DEATH CINtermediate List) DISPASES OF THE TREAVOUS SYSTEM AND SENSE ORGANS Total 1042 10 1 2 1 2 1 2 1 2 1 1 1 1 2 1 1 1 1 2 1	OAUSE OF DEATH SEX Children Children	Disease of Death Sex Christopher Cause of Death Disease of Death Diseases of the nervous system and sense organs Penale Sex Diseases of the nervous Disease organs Diseases of the nervous Disease organs Diseases of the nervous Diseases of the nervous Disease organs Diseases of the nervous Diseases	Diseases of the nervous Diseases Diseases of the nervous Diseases Disease	NERANES OF DEATH SEX Contemporate List) NERANES OF THE NERVOUS NER	Very comparison of the property of the prope

ANNUAL REPORT, 1957	25
82	папопопо
842 xruu81 x4 y 880	140 000
E884	000000044
7 37 1 73 1 3 1 3 1 3 1 3 1 3 1 3 3 1 3 3 1 3	1 0H404H
4809 1 mm mm 1 mm	ואן מהמהו
8821 Hrrs244 4 4 Hr 12 184 824 841 1 1 1 1 1 1 1 1 1	60000
084	4 3140
6470 H 0404 04 0	4444
844 SHEEL HEEL	н н
<u>πωα </u>	1777
4HW HW	
<u>при </u>	111110
Ф m m m m m m m m m m m m m m m m m m m	ПППН
ман нн н	
0 0 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
<u>∞nn nn H </u>	
040 0 HH H H H H	FIIIII
мна на на на на на на на на на на на на на на	
2 €€4 24 44 24 24 24 24 24 24 24 24 24 24 24	4
Hoo 6 H 6 01 H H	
814 was 4w 9p 499	100
- KON 4000-00 KS 0504-11 1 11 K08 1 1 400	7 1 1 8 2 1 1 8 2 1 1 1 1 1 1 1 1 1 1 1 1
2882 2022 2022 2022 2022 2022 2022 2022	18 18 18 18 18 18 18 18 18 18 18 18 18 1
	lle
Total Male Male Female Female Female Male Female Female Male Female Female Female Male Female	Male Female Male Female Male Female Male
	deoxe
g .	
STE	wbor
SYNER	and e ne r r m
RESPIRATORY SYSTEM A 87 Acute upper respiratory infections A 89 Lobar pneumonia A 90 Bronchopneumonia A 91 Primary atypical, other and unspecified pneumonia A 92 Acute bronchitis, chronic and unspecified pneumonia A 94 Hypertrophy of tonsils and adenoids A 95 Empyema and abscess A 96 Pleurisy A 97 All other respiratory diseases IX. DISEASES OF THE DIGESTIVE SYSTEM A 99 Ulcer of stomach Al02 Appendicitis and duodentits Al02 Appendicitis and duodenticlon and hernia	Gastro-enteritis and colitis, diarrhoea of the newborn Cirrhosis of liver choleithiasis and cholecystits Other diseases of digestive system
SES RAT uppe ms 2a phoeu uppe ms 2a phoeu ppneu ppne	ente oea sis of thias /stiti disea ve s
A 87 Acute upper Infections A 89 Lobar pneum A 90 Bronchopneum A 90 Bronchopneum A 91 Primary atymentalitie, comparation A 92 Acute bronch A 93 Bronchtilis, comparation A 95 Empyema an A 96 Pleurisy A 97 All other res diseases IX. DISEASES OF BUGESTIVE DIGESTIVE A 99 Ulcer of ston A102 Appendicitis and A102 Appendicitis and A103 Intestinal objects.	Gastro-enteri diarrhoea of Cirrhosis of I Choleithiasis cholecystitis Other disease digestive sy
H. DIS REG INDIA REG INDIA 88 INDIA 99 INDIA 90	
VIII. A 877 A 88 88 88 90 A 90 A 910 A 975 A 975 A 976 A 976 A 976 A 977 A 970	A105 A106 A106 A107

TABLE 8 - DEATHS, BY CAUSE AND SEX, BY AGE, ALBERTA, 1957 (Continued)

	CAUSE OF DEATH (Intermediate List)	X. DISEASES OF THE GENITO- URINARY SYSTEM	A108 Acute nephritis A109 Chronic, other and unspecified nephritis A110 Infections of Kidney A111 Calculi of urinary system A112 Hyerplasia of prostate A114 Other diseases of genito-urinary system	DELIVERIES AND COMPLICATIONS OF PREGNANCY, CHILDBIRTH, AND THE PUERPERIUM	Al15 Sepsis of pregnancy, childbirth and the puerperium the puerperium Al17 Haemorrhage of pregnancy and childbirth Al18 Abortion without resetting	sepsis or toxaemia Abortion with sepsis Other complications of pregnancy, childbirth and the puerperium	XIII. DISEASES OF THE SKIN AND MUSCULO- SKELETAL SYSTEM	A121 Infections of skin and subcutaneous fissue A122 Arthrits and spondylits A124 Osteomylttis and periositis
	SEX	Total Male Female	Male Female Male Remale Remale Female Female Male Male Male Male	Total	Female Female Female	Female Female Female	Total Male Female	Male Female Male Female Male
	Total	394	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	12		2H 4	57 26 31	48028
	Under 1 year	F-48	H40				211	ਜਜ
	l year							
	3 years							
	4 years					- 		
	5-9 years	-1:1						
	10-14 years	200	Ν	1			100	
	15-19 years	244	H H H H H H H					
	20-24 years	401	∞ н	- N	T H	H		
	25-29 years 30-34 years	446	не	4	ro	H	211	- IIII
AGE	35-39 years	8 + 8	нн Пн	N		н н	88 H	N
	40-44 years	13 33						
	2189y 64-GP	0017.00	80 01					
	50-54 years	924					200	
	55-59 years	400	6 F F				H 23 33	
	60-64 years	000					10 10	
	70-74 years	15 1 9 1	וווווווווווווווווווווווווווווווווווווו				416	; ;
	75-79 years	14 14 11 12 3 2	400HH 0H				0470 0214	HH (88)
	80-84 years	17	4-14 00			 	2024	1001
	+ 98	111	0.00				00 44	H H N
	Not stated							

			ANN	UAL REPO	ORT,	1957		27
			11111		1 20	0	122	
88					23	16	32 14 18	197
					1001	0 - 1 m m	172	86
88 4 4					484	26	821	4040 100
ਜਜ					242	1 42	222	4040 0 1400
8					148	30	2322	D-10-1 - 1 - 100
4 44					27 27 2	20	88°	0 0 H H G 44
ਲਜ ਜਜ	н				19	19	238	4-4- 1 0 1 1 10 0 1 1
					010	10.10	52	1
100	ਜ਼ਿਜ਼				2007	120	37	0 3 3 1 1 2 1 8 1 0
100	нн				9	9	64 65	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
					807H	12	355	00000
77					ਨਜਜ	HHH	8	4040 41410 0
7 1111		1111					59	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		111			ਜਜ	1117	62	8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
1 00	N				нн	H	10	4045 40 44 4
21	10 H						16	ФЮНННИ
369	:004H						28 16 12	4444 0 0
4-16	חחמ	111					211	
244	11177	111					17	4640
	11117						120	онанн о
∞ ro co	14 2						111	7 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
151 87 87 64	4 2 8 9 2			101	31 14 17	147	2882	0 0
10 16 189 108 81	2888 E	300	939	101 100	308 199 109	10 189 86	745 586 159	204 114 117 117 117 117 117 117 117 117 11
l l ale	ale ale	ale	ale	ale	l ale	ale	l ale	ale
Male Female Total Male Female	Female Male Female Male Female	Total Male Female	Male Female Male Female Male	Male Female Male Female Male Female	Total Male Female	Male Female Male Female	Total Male Female	Male Female Male Female Male Female Female Male Female Male Female Male Female Male Female
A126 All other diseases of skin and musculoskeletal system	meningocele Congenital malformations of circulatory system All other congenital malformations	CERTAIN DISEASES OF EARLY INFANCY	Al30 Birth injuries Al31 Postnatal asphyxia and atelectasis Al32 Infections of the newborn	A133 Haemolytic disease of newborn may be a light of the defined diseases of early infancy. A135 Ill-defined diseases peculiar to early infancy, and immaturity unqualified	SYMPTOMS, SENILITY, AND ILL-DEFINED CONDITIONS	A136 Senility without mention of psychosis A137 Ill-defined and unknown causes	EXVII. ACCIDENTS, POISONINGS AND VIOLENCE (CLASSIFICATION ACCORDING TO EXTERNAL CAUSE)	AE138 Motor vehicle accidents A Traffic accidents (810-825) B Non-traffic accidents AE139 Other transport accidents AE140 Accidental poisoning AE141 Accidental falls AE142 Accident caused by machinery
A126 All m XIV. CO MA	A128 Col ctr A129 All	XV. CEI	A130 Bi A131 Po A132 Ini	A133 Haemolyti newborn A134 All other of early A135 Ill-defined infancy,	XVI. SY	A136 Se of A137 III	EXVII.	AE138 N AE140 AE141 AE141 AE142 AE14

9
nije
nti
(Continued
57
1957
₹ L
FR
I.B
r-
AGE ALBERTA
\ >
RV
CAIISE AND SEX
6
A
ES
AI
2
RY
DEATHS
CA7
<u>-</u>
8
E
\BI
TABLE 8

		Not stated	
		+ 98	H
		80-84 years	H
		75-79 years	HH
		70-74 years	4H H H H H K K K K K
		ez-69 years	0 H 0 10
		8189V 49-09	44 14
		staby ed-55	
nne		50-54 years	
out		45-49 years	H H
		40-44 years	н н
195	a	35-39 years	
ALBERIA, 1957 (Conunued	PAG	30-34 years	мн 4 оин 100 м о м 4ионн 100 мион
DEK		25-29 years	1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
- 3		20-24 years	H
AGE,		subsy 61-31	4
DY A		10-14 years	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		5-9 years	пр н 4 н 2 2 2
DEA,		4 years	н
AND		S years	<u> 1 1 </u>
3		2 years	01 101 100 001 11 100 001 100 1
CAUSE		l year	α
		Under 1 year	0 1 1 10 0 1 1 1 1 1 1
, CIII _		Total	113 13 13 13 13 13 13 13 13 13 13 13 13
- DEALHS, BI		SEX	Male Female Male Male Male Male Male Male Female Male Female Male Female Male Female Male Female Male Female Male Female Male Female Male Female Male Female Female Male Female Male Female Male Female Female Female Male Female Female Male Female Female Female Male Female Female Female Male Female Female Female Male Female Female Female Male Female Female Female Female Female Female Male Female Female Male Female Female Male Female Fe
 -			
IADLE		CAUSE OF DEATH (Intermediate List)	AE143 Accident caused by fire and explosion of combustible material of combustible material and adiation AE144 Accident caused by the substance. AE145 Accident caused by firearm and radiation AE146 Accident accidental and radiation and accidental accidental accidental and other accidental and a self-inflicted and self-inflicted and injury purposely inflicted and injury purposely inflicted and self-inflicted and self-inflicted for injury resulting from appearations of war. NXVII. ACCIDENTS, POISONINGS AND VOLENCE (CLASSIFICATION ACCORDING TO NATURE OF INJURY) ANUA Fracture of skull and your concuston and fracture of limbs ANUA Fracture of limbs ANUA Fracture of limbs ANUA Elicers of foreign body entering and crushing with intact skin surface and purposely injury. concussion and crushing with intact skin surface accidental numb of foreign body entering and burns ANUA Elicers of foreign body entering and crushing with a Burns ANUA Burns ANUA Different and unspecified effects of external causes

TABLE 9 — DEATHS, BY CAUSE AND SEX, BY AGE, EDMONTON, 1957

TO THE	CAUSE OF DEATH (Intermediate List) Total Under 1 year 1 year	Total 1626 194 5 Male 1004 108 2 Female 622 86 3	I. INFECTIVE AND PARASITIC Total 29 Male 17 Female 12 Male 12	Tuberculosis of respiratory Male 12		A 20 Septicaemia and pyaemia		A 28 Acute poliomyelitis	Male Female	Female 1 Male Male	II. NEOPLASMS Infective and parasitic Female 1 Total 281 2 1 Male 156 1 Female 125 1 Female 125 1	A 44 Malignant neoplasm of buccal cavity and pharynx Male sophamum and pharynx 3 3 A 5 Malignant neoplasm of casophagus Fenale stomach 1 3 3 A 6 Malignant neoplasm of stomach Fenale 25 3 3 3
TOWN TO	2 years	320	- I					 				
TAINE O	4 years	3 10									 ਜਜ	
מקיעי, מקו	16-14 years	040		<u>:</u> 		1 1	11					
T WOLL,	20-24 years	6. 20. 20. 20. 20. 20. 20. 20. 20. 20. 20									2 2	
	25-29 years	26 19	10 H 30	10	1		1 1	1 1			. 0HH	
AGE	30-34 years	28 32 16 20 12 12	NO :	2	' 		 			 	3114	
OIA, 1	40-44 years	48 32 16	⊗ H Ø		* 				-		× 4.4	- ПП ПП
-	45-49 years	48 78 27 50 21 28	26					11			2001	
	55-59 years	26	88	7		11		11			17 27 7 15 10 12	
	65-64 years	143 94 11 49	00	-	- · · ·		1 1	11			16	н ною
	70-74 years	176 204 116 142 60 62	P 20 20	12			H	 			34 46 1	L 100
	75-79 years	210 126 84	ਜ਼ਜ਼				7				: :: : : : : : : : : : : : : : : : : :	1 9 1
	80-84 years + 58	169 118 98 54 71 64	- -		1 		: : 	11		111	1102	
	Not stated	200			1111	11	1 1			111	37	- I I I

TABLE 9—DEATHS, BY CAUSE AND SEX, BY AGE, EDMONTON, 1957 (Continued)

50		DUNEAU OF VITAL STATISTICS
	Not stated	
-	+ 98	
	80-84 years	2 2 HH HG 000HB H H
-	75-79 years	
-	70-74 years	201020 10 114 H 10
-	65-69 years	
	60-64 years	
	55-59 years	
	50-54 years	
	siesy 64-64	
	40-44 years	
[2]	35-39 years	——————————————————————————————————————
AGE	30-34 years	
	25-29 years	
	20-24 years	
	15-19 years	
	10-14 years	
	5-9 years	
	4 years	
	3 years	
	2 years	
	1 year	
	Under 1 year	
	Total	321 221 221 244 302 302 302 302 302 302 302 302 302 302
	×	
	SEX	Male Remale Male Male Male Remale Male Female Male Male Male Male Male Male Male M
	CAUSE OF DEATH (Intermediate List)	Walignant neoplasm of intestine, except rectum. Malignant neoplasm of larynx Malignant neoplasm of larynx Malignant neoplasm of trachea, and of larynx Malignant neoplasm of breast Malignant neoplasm of other and unspecified parts of uterus Malignant neoplasm of skin Malignant neoplasm of skin Malignant neoplasm of bone and connective tissue Malignant neoplasm of skin Malignant neoplasms Other respiratory organs Clad. 164, 165) Milliany organs Malignand skin skin skin skin skin skin skin skin
		A 449111 A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

	A	NNUA	L REP	ORT,	1957			31
		111	1111	111			ㅋㅋ [
11 400	10 110	111		11 18	101		888	H
H 940	mm m	111	1111	2277	111		848	N
120 HH	H9 HH		1111	868	<u> </u>	-	888	HH
H	00 0	111	1111	16	416	10	822	H
2 : : : : 2	1464 16	111	1111	113	6	m !	222	1 60
H4 HH	THE ITEM		H	00 TO 60	1000		29	101
		HH :	ਜ	100	44 4	П	19	
H	- -			004	000		22,23	
8 4				40H	8		12	100
ੀਜ ਕਜਜ	Пнн	HH !	7	400	H0 H	111	4104	HHH
1117		200	2	00	8		9 !	
1 1 mHQ	1 2			100001	HH NH		लनन	1117
11111111						111	H H	
		111	TIII	100	-	111	811	-
1111 111	ППППП	111						
		111		HH !	H			
THEFT				H H			ਜਜ	m
7		111				111	111	1111
		111		111				
111111111								
		100	2	ST ST	5			
23,46 23,48	14: 15:11:	77	ו מ	182 98 84	48 5 - 1 1 2 4 8 5		361	1 116
Male Female Male Female Total Male	Male Female Male Female Male Female Male	Total Male Female	Male Female Male Female	Total Male Female	Male Female Male Female Male Female	Female Male Female	Total Male Female	Male Female Male Female
Fee To Fee Fee	Fee	Fe	F F M S	To Ma	NEW FWE	FEF	FET	NENE
A 60 Benign neoplasms and neoplasms of unspecified nature III. IV. ALLERGIC DISORDERS AND EDOOD DISEASES	A 61 Nontoxic goitre A 63 Diabetes mellitus A 65 Anaemias A 66 Allergic disorders; all other endocrine, metabolic and blood diseases	V. MENTAL. PSYCHONEUROTIC, AND PERSONALITY DISORDERS	68 Psychoneuroses and disorders of personality	VI, DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS	70 Vascular lesions affecting central nervous system	A 73 Epilepsy A 78 All other diseases of the nervous system and sense organs	VII. DISEASES OF THE CIRCULATORY SYSTEM	79 Rheumatic fever
4 1	4 4 44	>	< <	in the	4 4 4	41,44		A A

TARLE 9 - DEATHS BY CALISE AND SEY BY ACE EDWONTON 1057

— 6 HABLE 9		CAUSE OF DEATH (Intermediate List)	A SI Arterlosclerotic and degenerative A R2 Other disease A R3 Hypertension with heart disease A R4 Hypertension without mention A R5 Diseases of arterles A R6 Other diseases of circulatory system VIII. DISEASES OF THE RESPIRATORY SYSTEM A R7 Acute upper respiratory A R6 Influenca A 89 Lobar pneumonia A 90 Bronchopneumonia A 91 Frimary appical, other and Unspecified pneumonia A 92 Acute bronchitis, chronic and Unspecified bronchitis A 93 Bronchitis, chronic and A 95 Empayema and abscess of lung B A 97 All other respiratory diseases
DEATHS, BY CAUSE		SEX	Maie Pemale Maie Pemale Pemale Female Pemale Pemale Pemale Pemale Male Female Male Female Male Female Female Male Female Male Female Female Male Female Male Female Male Female Female
, BY		Total	2821 00000000000000000000000000000000000
CA	-	Under 1 year	800 HT HHHU WAKH
USE		l year	она н нн нн
AND		2 years	NHH
		4 years	N 0 H H
SEX,		5-9 years	
BY.		10-14 years	
AGE,		15-19 years	
		20-24 years	
MOI		25-29 years	
EDMONTON,	AGE	30-34 years	
, 1957	G	35-39 years	* - - - - - - - - - - - -
- 1		40-44 years	сп п п п п п п п п п п п п п п п п п п
(Continued		45-49 years	<u>мннн н н мнн н </u>
nued		50-54 years 55-59 years	<u> </u>
		60-64 years	<u>α</u> α
		65-69 years	44
		70-74 years	284488 HHHH DD H B H H H H H H H H
		75-79 years	### ### ##############################
		80-84 years	8/3 8 4 3 4 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		+ 98	у́́́Синчии ч. н. п. т. п.
		Not stated	T1111111111111111111111111111111111111

ANNUA	L RE	PORT, 1957				33
			-	:	111	
та	ਜਜ	111111111	1			TIIIII
44	HH		-	1		
мни н н н				:		
4 00	4 W H	нн (а) (-			H
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NHH	- -				TIIIII
оно — — — — — — — — — — — — — — — — — —	0 0	H H	1		ਜ਼ਜ਼	ПППП
44 1				1	111	
	NHH			1		IIIH II
0 0				- 1		
	ਜਜ	H	Н	H	111	
	1111			-	1111	
	H H					
					111	
	H200	77			111	
	нн :		:			
	ਜਜ]	H				
	111		1			
			1			
			-	:		
HH				1	111	
				-	111	
окн пни	213		1			
404 004 HH4H0H400H040H00	23	₩404₩HH	Ħ	Н	es es	14 14 14
le l	Je	le le		le	lle	lle lle
Total Maie Female Male Female Maie Female Maie Female Female Maie Female Male Female	Total Male Female	Male Female Male Female Male Male	Total	Female	Total Male Female	Male Female Male Female Male Female
	1					
te			JNS H,	sis		
except	¥ :	Đ.	XI. DELIVERIES AND COMPLICATIONS OF PREGNANCY, CHILDBIRTH, AND THE PUERPERIUM	sepsis	KIN	pur
d Itis, n	SYSTEM	ecifie	PELIC	o uc	KIII. DISEASES OF THE SH AND MUSCULO-SKELETAL SYSTEM	Infections of skin and sub- cutaneous tissue Arthritis and spondylits All other diseases of skin a musculoskeletal system
EM n an coll vborr		unsp state	CH	entic	Y THE	of s
DISEASES OF THE DIGESTIVE SYSTEM 99 Ulcer of stomach 00 Ulcer of duodenum 102 Appendicitis 104 Gastro-enteritis and colitis, diarrhoe of the newborn 105 Chribosis of liver 106 Choleithiasis and cholecystitis 107 Other diseases of digestive system	SEASES OF THE GENITO-URINARY	Chronic, other and unspecine infections of kidney	ND TOY,	ut m	AND MUSCULO-SKEI	in all
macl macl coder co	RIN	of ses creen	NAN PU	ithor a	ASE	f sk tissu nd s lisea letal
ISEASES OF THE DIGESTIVE SY DIGESTIVE SY DIGE of stomach Ulcer of stomach Appendictis. Appendictis and Gastro-enteritis a diarrhosa of the Chrolecystitis and Chrolecystitis and Other diseases of System.	0 S	is ntl ns casia iseas sys	REG	Abortion witho	ISE MUS M	Infections of skin a cutaneous tissue Arthritis and spor All other diseases musculoskeletal sy
r of endi	ASE	Chronic, onephritis Infections Hyperplasi Other dise	IVE	ortio	STE	anectic hriti oth
DISK DICE Ulice Ulice App App Gasi Gasi Gasi Cirr Choi	SE	Chr Infe Hyp Oth	OEL OF AN	Abc	AN	eut Art An
IX. DISEASES OF THE DIGESTIVE SYSTEM A 99 Ulcer of stomach A100 Ulcer of duodenum A102 Appendicitis A103 Intestinal obstruction and hemia A104 Gastro-enteritis and colitis, diarrhoes of the newborn A105 Chrinosis of liver Cholevystitis A107 Other diseases of digestive system.	X. DISEASES OF THE GENITO-URINAR	Allo Chronic, other and unspecified nephritis Allo Infections of kidney All Hyperplasia of prostate All Other diseases of genito-uniary system	KI.)	A118 Abortion without mention of or toxaemia	XII. XIII. DISEASES OF THE SKIN AND MUSCULO-SKELETAL SYSTEM	A121 Infections of skin and sub- cutaneous tissue ———————————————————————————————————
	-		* ,			

TABLE 9		CAUSE OF DEATH (Intermediate List)	XIV. CONGENITAL MALFORMATIONS	A127 Spina bifida and meningocele A128 Congenital malformations of circulatory system A129 All other congenital malformations	XV. CERTAIN DISEASES OF EARLY INFANCY	Al30 Birth injuries Al31 Postnatal asphyxia and atelectasis Al32 Infections of the newborn	A133 Haemolytic disease of newborn memory and all other defined diseases of early interory. A135 Ill-defined diseases peculiar to early intency, and immaturity unqualified	XVI. SYMPTOMS, SENILITY, AND ILL-DEFINED CONDITIONS	A136 Senility without mention of psychosis A137 Ill-defined and unknown causes
- DEATHS,		SEX	Total Male Female	Male Female Male Female Male	Total Male Female	Male Male Male Male Male Male	Female Male Male Female Male Male	Total Male Female	Male Female Female
IS, BY		latoT	<u></u>	22298	110 58 52	38886	Ванина	23823	4040
Y C		Under 1 year	4621	19 19 6	110 58 52	101010	Вциппи		H
CAUSE		1 year		H	111				
E Al		2 years	ਜ਼ਜ	11111					
AND S		3 years							
SEX,		4 years	ਜ਼ਜ਼		-				
BY		5-9 years	- FO 33	HA					
AGE,		15-19 years	2 2	1 0					
		Z0-24 years							
OMO		Z5-29 years			-		::::::: :::::::	H H	
EDMONTON, 1957 (Continued)	A	30-34 years	 		<u> </u>	<u> </u>	· · · · · · · ·	H H	
N, 19	AGE	35-39 years		_	-	_	 	00	2
957		40-44 years			_			88	1 2
Con		45-49 years						244	
tinu		50-54 years	H H					111	
(pa		55-59 years						400	100
		60-64 years						00 00	00
		65-69 years						100	n-1
		70-74 years						0000	H 00 H
		75-79 years			-			1000	юнп н
		80-84 years + 58						80H	HO
					111			70 TO	4 1

ANNUAL REPORT, 1957	35
	111111111
<u> « « « « « « » « « » « » « « » « » « » </u>	
мна н н н н н н мна н н н	-
00	TITLE
<u>м4</u> н мнин	TITIFITI
<u></u>	111111
FD0	
0 80 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	H H N
00	7
Hou when I I I I I I I I I I I I I I I I I I I	3 H 8
900 HHHH 1 1 1 1 HHHH 900 H HHHN	H 8 H
0000 H H H HHHH 0	0 0000
11	<u>н</u> и
44 0 0 H H H	
ח אמים און	
	
р4 ч онон н п р4 ч о н	7
	- R - R - R - R - R - R - R - R - R - R
88 4 4 4 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	224-10280
	ule ule
Total Male Male Male Male Male Male Male Ma	Male Female Male Female Male Female Male
I AND OAUSE) OAUSE) Stance, radiation S AND CON ACTIVE	po &
PION A CAUSING A	tering effects
TONAL S	ly en
ISON TERRITER Identification A month in moth in mot	ss
of Color of	oreig ice oison d un cause
ACCIDENTS, POISONINGS AND VIOLENCE (CLASSIFICATION AC- CORDING TO EXTERNAL CAUSE) Motor Vehicle accidents Traffic accidents (\$10-825) Other transport accidents Accidental fails Accidental fails Accident caused by fire and explosion of combistible material explosion of combistible material accident caused by hot substance, oprosive liquid steam, and radiation Accident acused by hot substance. Submersion in the state of the accidental drowning and submersion accombistible material accidental drowning and submersion. Accident eaused by hot substance. Submersion and radiation of the accidental drowning and submersion accidental causes Submersion All other accidental causes Submersion ACCIDENTS, POISONINGS AND VIOLENCE CLASSIFICATION ACCORDING TO NATURE OF INJURY) Fracture of skull Fracture of limbs Hereture of skull Fracture of limbs Fracture of limbs Fracture of skull Fracture of limbs Fracture of limbs Fracture of skull	Effects of foreign body Hurns orditee Effects of poisons All other and unspecific of external causes of external causes
ACCIDENTA VIOLENCE CORDING VIOLENCE CORDING VIOLENCE CORDING (SLO-SZ) CHET TRANS CACCIGENTA ACCIGENTA ACCIDENTA ACCIDENTA VIOLENCE CORDING Fracture of Fracture o	ects ough rns ects othe
TH. ACCIDENTS, POISONING VIOLENCE (CLASSIFICA COEDING TO EXTERNAL BS Motor Vehicle accidents (BIO-825) 99 Other transport accidents 40 Accidental falls A reddental raused by machinery A Accident caused by fire an explosion of combustible machinery A Accident caused by bot su correstive liquid, stearn, and 44 Accident caused by bot su correstive liquid, stearn, and 46 Accidental arowning and submersion 47 All other accidental causes 48 Suicide and self-inflicted injury 49 Homicide and self-inflicted injury 49 Homicide and injury purpo 49 Fracture of spine and tru 40 Fracture of spine and tru 40 Fracture of spine and tru 40 Fracture of limbs 44 Homicide and injury of chest, and news in purpo 40 Accident of limbs 414 Internal injury of chest, and news is successive.	7 Eff thr 8 Bur 9 Eff 0 All
EXVII ACCIDENTS, POISONINGS AND VIOLENCE (CLASSIFICATION ACCORDING TO EXTERNAL CAUSE) AE138 Motor Vehicle accidents A Traffic accidents AE140 Accidental falls AE141 Accident caused by fire and material explosion of combustible material explosion of combustible material explosion of combustible material explosion of combustible material accident caused by hot substance, corrosive liquid, steam, and radiation. AE144 Accident caused by hot substance of providing and AE144 Accident caused by hot substance automater and an injury purposely inflicted injury. AE149 Sucide and injury purposely inflicted injury. ACCIDENTS, FOISONINGS AND VIOLENCE CLASSIFICATION ACCORDING TO NATURE OF INJURY). AN138 Fracture of skull AN138 Fracture of skull AN140 Fracture of skull AN141 Interne) AN144 Interne) AN144 Interne) AN144 Interne) AN144 Interne)	AN147 Effects of foreign body entering through office AN148 Burns AN149 Effects of poisons AN150 All other and unspecified effects of external causes
	4 4 4 4 1

TABLE 10 — DEATHS, BY CAUSE AND SEX, BY AGE, CALGARY, 1957

1	Not stated	==	111		1		: :		111	
	+38	141 68 73	ਜਜ		-	1	11		11.00	Нана
	80-84 years	148 82 66			,		1 1		141	H H0H0
	75-79 years	228 141 87	100	H H	T				22.12.12.12.12.12.12.12.12.12.12.12.12.1	пана
	70-74 years	217 139 78		111			117	1	37 24 13	п годна
	ele9y 98-59	143 91 52	244	н			11	н	1233	1 1 1 1 1 1 1 TO H
	8769V 40-00	120, 74 46		TIII					813	п п п п
	sassy 63-33	932	00	23 !!!					1202	H H 60
	STB9V 4-02	64 41 23	ਜਜ	ਜ : :			11		121	ਜ਼ਿਜ਼ ਜਜ
	45-49 years	23 23 19	ਜਜ	H ! !	T				10	- - -
	40-44 years	23.22	ਜਜ	111	Ŧ				1142	ППППППППППППППППППППППППППППППППППППППП
62	35-39 years	24 14 10		111	1				4.62	
AGE	30-34 years	118	ਜਜ		1			- 1	H 12 00	
Ì	25-29 years	12 12	111	111	1				2 2	111111
	20-24 years	15	111	111	: :				487	
	sassy el-di	940			1				HH	
	10-14 years	н		1111	1 1					
	5-9 years	F-824	нн				7		SHH	HIIIII
	4 years	0 N		111			III		2 2	
	3 years	OR4			1				H H	
	2 years	484	111		1 1		III			
	I year	M-100					III		HH :	
	Under 1 year	146 77 69	HH		11	 			111	
	Total	1488 892 596	41 13 1	9 1	2	H		ਜਜ :	259 141 118	120 m 20 m 20 m
	×	le	le	le	e e	le le	le	le le	<u>a</u>	9 9 9
	SEX	Total Male Female	Total Male Female	Male Female Male	Male	Female Male Female	Fema Male	Female Male Female	Total Male Female	Male Female Male Female Male Female Male
	CAUSE OF DEATH (Intermediate List)	ALL CAUSES	LINFECTIVE AND PARASITIC DISEASES	1 Tuberculosis of respiratory system 5 Tuberculosis, all	A 10 All other syphilis	29 Acute infectious encephalitis 32 Measles	34 Infectious	A 43 All other diseases classified as infective and parasitic	II. NEOPLASMS	A 44 Malignant neoplasm of buccal cavity and pharnyx A 5 Malignant neoplasm of oesophagus A 6 Malignant neoplasm of intestine, stomach A 47 Malignant neoplasm of intestine, except rectum
		ALL CA	LINFECT	A 1 Tub syst A 5 Tub	A 10 All	A 29 Acur ence A 32 Mea	A 34 Infe	A 43 All infe	II. NEOP	A 44 Mali cavi A 45 Mali oeso A 46 Mali ston A 47 Mali

	H 80 80	m
H H H M WW4H HW H	818	пнн п
H	040	
H OH N HH	1192	040
<u>81 81 8 81 4488 1 1111111 11</u>		пен п
H	A.W.H	21
	n − n	HH I
H 01H0 H 44 01 H H 200		
m H H0 H 0		
1 00 01 1 1 1 1 0		
7 7 7		
	88	H H
	H	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Εσμη Καμβα ων μα μα βρωμα το κατο συστο.	200	
ΕΩΠΗ Κατικο εκτιμο εκκυποιώς ΕΩΗ Κατικο εκτιμο εκκυποιώς	e e e 20	o o o o
Male 7 Female 1 Male 1 Female 4 Male 25 Female 4 Male 1 Female 5 Female 1 Male 15 Female 1 Female 1 Male 1 Female 13 Male 2 Male 1 Male 6 Female 6 Female 6 Female 6 Female 6 Female 6 Female 6		
Male Female 1 Male 1 Male 1 Male 1 Male 25 Male 15 Male 15 Male 15 Male 16 Male 16 Male 17 Male 18 Male 19 Male 19 Male 19 Male 19 Male 19 Male 10 Male 10	New Permane 4 1 1 1 1 1 1 1 1 1	Male Female Male Female Female Female Male Female Female
Male 7	New Permane 4 1 1 1 1 1 1 1 1 1	Male Female Male Temale Male Female Male Female Male Female Male Female Female
Male 7	New Permane 4 1 1 1 1 1 1 1 1 1	Male Female Male Temale Male Female Male Female Male Female Male Female Female
Male T T Male T T Male T T T T T T T T T	of Male 1 Male 1 Female 1 Total 39 Male 19 Female 20	Male Female Female Male Female Male Female Male Female Male

TABLE 10 — DEATHS, BY CAUSE AND SEX, BY AGE, CALGARY, 1957 (Continued)

-	Not stated		11	: :				: :		!!!	
	+ 98		- 1 1	1 1	877	15		1 1		888	1778
	80-84 years	H	11		178	192			11141	832	।।।। । । । । । । । । । । । । । । । । ।
	75-79 years		11		1882	888		11		8278	11114844
	70-74 years	ਜਜ	11	1 1	322	181		11	101	F48	108201
	65-69 years	ਜ :	11	11	121	0 010	: :	11	1117	882	13222
	60-64 years	ਜ	11		00 41	440				888	11 8 11 8
	55-59 years	Ħ	7	н :	1010	440		2	N	2820	16
	50-54 years		11		10000	10101	74	11		120	1 1 2 2
	45-49 years		11	11	[DHZ	r-101	1 1	77		10	1 100
	40-44 years		11	11	100	Н	11	H	11111	70 4 H	H4
斑	35-39 years		11		0 0	חו	11	. 7		940	H 60 01 1
AGE	30-34 years		1 1		НН	-	11	1 1		100	
	25-29 years		!!		111					ਜ਼ਜ਼	
	20-24 years		11	1 1	111		11	11		ਜ਼ਜ	IIIII I
	15-19 years		11	11			11	11		러	
	10-14 years		11		-	1	11	11	H		
	5-9 years		11		111		11	11		H H	H
	4 years		11				11	11			
	3 years		11	1 1	103 10	1	H	11	-		
	2 years	11	11	11			11				
	1 year		11	11			11				
	Under 1 year		11	11	103 10		- 				
	Total	44	- 1	٦ ;	101	88	210	911	361	419 252 167	196 124 10 10
	×	ule		nie .	nle	le le	lle ,	i ie	lle lle	.le	le le
	SEX	Male Female	Total Male	Female Male	Female Total Male	Male Female Male	Female Male	Fems Male	Female Male Female Male Female	Total Male Female	Male Female Male Female Male Female Male
	CAUSE OF DEATH (Intermediate List)	A 66 Allergic disorders; all other endocrine, metabolic and blood diseases	V. MENTAL, PSYCHONEUROTIC, AND PERSONALITY DISORDERS	A 67 Psychoses	VI, DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS	A 70 Vascular lesions affecting central nervous system A 71 Nonmeningcoccal meningitis	A 72 Multiple sclerosis	A 73 Epilepsy	A 77 Otitis media and mastoditis	VII. DISEASES OF THE CIRCULATORY SYSTEM	A 79 Rheumatic fever A 80 Chronic rheumatic heart disease heart disease of heart A 82 Other disease of heart

	ANNUAL REPORT, 1957	39
28 19 H H 28	H	
370 102 102	H 900 44	7
E44 H H E14	H 1 1 10 10 1 H 00 4 4	
844 88 H		H HH H
мн мнн ∞гом	H H H H H H H H H H	
84 84 FES		H I I I I I I I I I I I I I I I I I I I
ה וחחם ה מחמ	H HH	
Q 460H	HH H H F40	HH H
H 887	H- H H H H-	
H233	H HH HH	
N N		
TH. 1111	111111111111111111111111111111111111111	
-		
111111111111111111111111111111111111111		
NO.		
11000		
001000	Hwww	н п п п
33.00 00 00 00 00 00 00 00 00 00 00 00 00	1 427 8 8 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 H D D D D D D D D D D D D D D D D D D
0 0 0 0 0		le l
Male Female Male Female Male Female Female Total Male Female	Male Female Female Male Female Male Male Female Male Female Female Female Male Female Female Female Female Fortale Fortale Male Fortale Fortale Male	Male Female Male Female
ZHAHAHAH CAH		
g.		except
lseas lon	g	
rt d nent latol	r an	olitis
heau ut n s freu freu	other a nonia ic and onsits ar cess ory STEM STEM	n on d c
ith ithor of c	respiration of ton of t	ach ructi
n w n w art ses	eurnoni umonii umonii utypica d pne-	tome luod s.s bbstr prittis of t
nsion transion transi	uppe ans. San. San. San. San. San. San. San. San	of s. liciti liciti enticentic bea is o
Hypertension with heart d Hypertension without ment Olseases of arteries Other diseases of circulato system DISEASES OF THE RESPIRATORY SYSTEM	Acute upper respiratory infections Influenza Lobar pneumonia Broncopneumonia Primary atypical, other and unspecified pneumonia Bronchitis, chronic and unqualified Hypertrophy of tonsils and adenoids Empyena and abcess Of lung All other respiratory diseases PIERASES OF THE DIGESTRYE SYSTEM	Ulcer of stomach
83 Hypertension with heart dise of heart antion of heart areas. 85 Diseases of arteries	88 Influenza 89 Lobar pneumonia 89 Lobar pneumonia 90 Broncopneumonia 91 Primary atypical, unspecified pneum 92 Acute bronchitis, chronicits 93 Bronchitis, chronicits 94 Hypertrophy of to 94 Hypertrophy of to 95 Empyema and abo 97 All other respirate 97 All other respirate 10 INEEASES OF THE	
A 83 Hypertension with heart disease A 84 Hypertension without mention Of heart A 85 Diseases of arteries A 86 Other diseases of circulatory system VIII. DISEASES OF THE RESPIRATORY SYSTEM	. 95 94 93 94 95 P	A 99 Ulcer of stomach
A A A A V		4 4 4 4 4

70
7
Ξ
Continued
<u> </u>
~~
\sim
1957
100
0
~
-
Ø
ئ
AGE, CALGARY
7
_
- 1
Ŧ
C
⋖
, '
\triangleright
B
56
18
7.6
0,2
BY CAUSE AND SEX. BY A
5
5
4
[-]
1
₹
\circ
h .
м
- DEATHS
7
r-3
-
- 1
0
10
TABLE
1
31
۳
Y
L

TABLE 10 — DEATHS, BY CAUSE AND S	CAUSE OF DEATH (Intermediate List) Total Total 2 years 3 years	Male 2	X. DISEASES OF THE GENITO- URINARY SYSTEM Female 8 1	a a a a	ALL AND PROSERVE ALLY Other diseases of proserve ALLY Other diseases of proserve ALLY OTHER GENERAL THE SKIN AND MUSCULO-SKELETAL Male SYSTEM	A121 Infections of skin and sub- cutaneous tissue	Total 34 29 3 1
SEX, BY	5-9 years						
Y AGE,	10-14 years						
E, CAL	20-24 years						
GARY, AGE	30-34 years		H H				
CALGARY, 1957 (Continued) AGE	35-39 years		100	2 1 1			
Contin	45-49 years		m 07 H				
(pen	stasy 66-56	1 00			200	2	
	87.694 46-64 87.69 years	ਜ਼ਜ਼			 - -		
	70-74 years		601	7 7 7 7	88		
	75-79 years	1424	90				
	+58 Not stated	140	94.0	— [H M] []	HQ QHH		

		ANNUAL REPORT, 1957	1
1:::			! !
TIII			
Tiii		040HERT REG HOH	11
Tiii		21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Tiii			
TIII			1 1
TIII		22 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7
	111	### ##################################	1 1
	111	0440 440 000 HH	
		жин бай на	
	111		
III			
		·	
1111		1 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11
TIII		000 000	II
TILL		ман н н	11
TIIII	111		11
TIII	111		1
			īĪ
H	111	NHH HHHH	īĪ
1111			
€ :			
1000	884	480080444 1000000 4 10 10 11 11 11 11 11 11 11 11 11 11 11	
81138	38	48 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
lle	le		ale
Male Female Male Female	Total Male Female	Male Female Mala Female Mala Mala Mala Mala Mala Mala Mala Female Mala Female Mala Female Mala Female	Male Female
		o early allified O early S AND CAUSE)	
		A130 Birth injuries A131 Postnatal asphyxia and A132 Infections of the newborn A133 Haemolytic disease of newborn A134 Indefined diseases of early infancy A135 Ill-defined diseases of the infancy, and immaturity unqualified XVI. SYMPTOMS. SENTITY. AND ILL-DEFINED CONDITIONS A136 Senility without mention of Byschosis A137 Ill-defined and unknown causes Byschosis A137 Ill-defined and unknown causes Byschosis A2131 Accidents AE138 Motor vehicle accidents B Non-traffic accidents B Non-traffic accidents AE139 Other transport accidents AE139 Accident caused by fire and explosic accidents are accident and accident caused by fire and explosic accident caused by fire and explosic accident caused by the substance, corrosive liquid, steam, and radiating corrosive liquid, steam, and radiating accident sources by not substance.	
of	Fr.	n n n n n n n n n n n n n n n n n n n	earn
Congenital malformations of circulatory system All other congenital malformations	XV. CERTAIN DISEASES OF EARLY INFANCY	A130 Birth injuries A131 Postnatal asphyxia and A132 Infections of the newborn A133 Haemolytic disease of newborn A134 All other defined diseases of early infancy and immaturity unqua XVI. SYMPTONS, SENILITY, AND LL-DEFINED CONDITIONS A136 Senility without mention of Psychosis and unknown causes EXVII. ACCIDENTS, POISONINGS EXVII. ACCIDENTS, POISONINGS CORDING TO EXTERNAL AE138 Motor vehicle accidents AE139 Other transport accidents AE140 Accidental falls AE141 Accidental falls AE141 Accidental falls AE143 Accident caused by fire and excorpsive liquid, siean, and recorposive liquid, and recorposive liquid, siean, and recorposive liquid, and recorposity and recorposity and recorposive liquid, and recorposity and r	AE145 Accident caused by firearm
Congenital malformation circulatory system All other congenital malformations	ASE	kia e ne asse da di	q pa
Congenital malforms circulatory system All other congenital malformations	ERRAIN DISEASE EARLY INFANCY	Sirth injuries	cause
r col	IND	h injuries matal aspinetasis ctons of ctons of ctons of other defined disance distributed disance distributed disance disa	ent c
genit ulat othe form	TAI	Birth injurrations at a talectasis infections and other carry infan infancy, a Semilty with psychosis infancy, a Semilty with psychosis infancy, a Semilty with psychosis infancy, a Cokenity with a semilty with a semilt and a semilt a	ccide
Con circ All mal	EAL	Birth injuries Postnatal asphyxia atelectasis of the Infections of the Infections of the Infections of the Infections of the Infection of the	Š.
A128 A129	V.	A131 Postnatal asphysia and atalectasis of the newbo A132 Infections of the newbo A133 Haemolyte disease of n A134 All other defined disease peer infancy and immaturit XV. SYMPTOMS. SENILITY ILL-DEFINED CONDITY INCOME. A137 Ill-defined and unknown Bytchois and Infancy and income A137 Ill-defined and unknown CEVII. ACCIDENTS. POISO VIOLENCE (CLASSI) CORDING TO EXTE AE138 Motor vehicle accidents (810-825) B Non-traffic accidents B Non-traffic accidents AE139 Other transport accid AE131 Accident al poisoning AE141 Accident caused by fire AE143 Accident caused by fire ACIGHAT caused by fire ACIGHAT caused by fire accident caused by fire ACIGHAT caused by fire ACIGHAT caused by fire ACIGHAT caused by fire accident caused by fire accident caused by fire ACIGHAT caused by fire ACIGHAT caused by fire accident caused by fire	E14
4 4	×		4

TABLE 10 — DEATHS, BY CAUSE AND SEX, BY AGE, CALGARY, 1957 (Continued)

	Not stated	
	+ 98	H 0044
	80-84 years	H 70800
	75-79 years	
	70-74 years	
	ez-69 years	H
	60-64 years	
	55-59 years	H H 44 H H H H H N
	50-54 years	
	45-49 years	H
	40-44 years	
闰	35-39 years	
AGE	30-34 years	
	Z5-29 years	H 10 H 10 M 10 M
	20-24 years	н 1 1 2 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	215-19 years	ਜ ਜ ਲਕਜ
	10-14 years	
	5-9 years	-
	4 years	
	3 years	
	Z years	
	7 Year	
	Under 1 year	1 0 1 0 0 1
	IstoI	ν η η η η η η η η η
	SEX	
		Male Female
	CAUSE OF DEATH (Intermediate List)	AE146 Accidental drowning and AE147 All other accidental causes AE148 Submersion AE148 Sulcide and self-inflicted injury NXVII. ACCIDENTS, POISONINGS AND VIOLENCE (CIASSIFICATION AC- CORDING TO NATURE OF INJURY). AN138 Fracture of skull AN149 Fracture of skull AN149 Fracture of limbs AN140 Fracture of limbs AN141 Inferral injury of chest, abdomen, and peivis AN145 Laceration and open AN145 Laceration and open AN145 Effects of foreign body entering through orifice AN148 Effects of foreign body Effects of poisons AN149 Effects of poisons AN150 All other and unspecified effects of external causes

ETATIC AND ACE AND WONTH OF DEATH, ALBERTA, 1957

			CAUSE OF DEATH (Intermediate List) Total	Total 8255 1 Male 5190 Female 3065	I. INFECTIVE AND PARASITIC DISEASES Total 148 92 Female 56	A 1 Tuberculosis of respiratory Female 18
_	}	ars	Under 15 years	1259 1 695 1 564	35 14	<u>и н н н н мимпинин р</u>
	S		Z5-44 years	163 126 10 37	040	88
	Single		45-64 years	137 243 109 209 28 34	9734	4.0 0
	Married		+99	1260	7 9 7	8
MAR			15-24 years	21 7 7	8 8	
MARITAL STATUS		AGE	25-44 years	390 248 142	18 8 10	∞ 67 +
STA	ried	田	45-64 years	1191 761 430	110	on ⊢ N
rus			+ 99	2089 1528 561	122	800 H 01 H
	*		15-24 years			
	Widowed		25-44 years	14 16 7 10 10 10 10 10 10 10 10 10 10 10 10 10		
	P		+99	161 1881 59 834 102 1047	000	811111111111111111111111111111111111111
			Residual	31 146 34 118 17 28	18 7 8 7 10	ю <u>н </u>
			January	685 432 255 255	1119	
		-	Еергиагу Магећ	399 4. 217 2.	1700	- - -
		_	lingA	616 654 681 7 399 416 439 4 217 238 242 2	10 6 8 8 4 4	<u> </u>
MO			Мау	202	10 10	жнн
MONTHS			ıme	641 63 397 37 244 22	2114	E - - -
	_		July	628 632 377 408 251 224	104	00 144 10 17
			September	2 662 8 417 4 245	7 10 7	8
	October			924 570 354	13	
				4 733 697 0 453 446 4 280 251	3 13 13 7 7 9 6 6 4	4.00 101 111

n 000 i i⊔⊔
4 4264 4
4 44 1 14 1
4 6 1111
4 44 114
H H9
4 40 HH H 10H H
4 40 HH
4 22 2 14
<u>мон імн</u>
H 020 10
H H0HH
w 40 m 10
2 1 1 1
m
2 68 12
1 82 18
D H
НН
E HH
П П П П
8
ППИН
8 5 8 8 4 9 9
Female Male Male Female Male Female
, řzzřzř
A 53 Malignant neoplasm of other and a series of uterus managements of uterus and a 54 Malignant neoplasm of prostate A 55 Malignant neoplasm of skin A 56 Malignant neoplasm of bone and connective tissue

ANNUAL	REPORT, 1957	45
######################################	102	
<u>ж</u> ни <u>ч</u> и на говини на н	086 1040 00 00	N
844 844 844 844 844 844 844 844 844 844	11	ਜਿਜ ਜ
en a the account of the second	82 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	H H
800010 F1014F010000 H001	HH H4 8H 81	H
HE 00 HH 408HG G84	3 K H H H H H H H H H H H H H H H H H H	F III
0000H 400H044040HU00H0	281 46 0000	
4000H HOUSTHOUTSON H	600 HEREH 4 800 HE	
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	H
E4-4H WWHWH47000004 H	142 331 1051 1482	ਜਜ
H H H H H H H H H H H H H H H H H H H	01 01 01 01 01 01 01 01 01 01 01 01 01 0	HH
HR44 4HH G E RH RH H	000 44 444 44	N
80 H H H R 8H 8H 8H 8	44	7 H
24000 1000 10000 10000	203 133 1 1 1 1 6 6 8 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-
40HD HQ H4 HHH HH	юн4 на а а а	H H
F		
0000 111111111111111111111111111111111	838 838 11 22 10 0 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
88911	811 111 1 1 1 1 1 1 1	нню ! ! !
E044 H ECTTATIONS	000 000 000	10
<u> </u>	422 421 1 0 1 1	H
40HH 0 HH HOHO H 0	4.00 H	
н н н 4 н 2 н 2 н	44 4 1 0 1 4 1 1 1	TIP III
8H H H H H R H H R H	юни нн нн	
<u>000 </u>	11 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
571 69 69 69 68 68 68 68 68 68 68 68 68 68	246 1116 116 122 122 177 777 777 777 777 777 777 777	857
Male Female Male Female Male Male Male Female Male Female Male Female	Total Male Female Male Female Female Female Male Female Male Female Male Female Male Total Male Female	Male Female Male Female Male Female
Male Femal Male	Masser Hear Hear Hear Hear Hear Hear Hear He	Fe
A 57 Malignant neoplasm of all other and unspecified sites A Other digestive organs A (155-159) B Other respiratory organs C (160, 164, 165) C Urhay organs	HII., TV. ALLERGIC DISORDERS AND ENDOCHENE METABOLIC AND BLOOD DISEASES. A 61 Nontoxic goltre A 62 Thyrotoxicosis with or without goltre A 63 Diabetes mellitus A 64 Avitaminosis and other A 65 Anaemias A 66 Anaemias A 66 Anaemias A 66 Anaemias A 66 Anaemias A 70 MENTAL, PSYCHONEUROTIC AND PERSONALITY DISORDERS	A 67 Psychoses A 68 Psychoneuroses and disorders of personality A 69 Mental deficiency
A A A		, , ,

ANNUAL REPO	ORT, 1957 47
9221 H2H2FFEE HE	221 2 8 1 1 1 1 1 1 1 4 1 4 1
800 121 141000000000000000000000000000000000	887 0 0 n H 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
888888888888888888888888888888888888888	0071 1 1100 1 1100 1 1100 1 1100 1 1100 1 1 1000 1 1 1000 1
200 100 8040 01 01	0001 1003 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0440 11 11 19 12 12 12 12 12 12 12 12 12 12 12 12 12	101 E H 1044 SE H 10 10 10 10 10 10 10 10 10 10 10 10 10
2111 84 w 4 u d w u	03110330011 1700 1708
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00000000
400 0 1 44 F 8 8 1 H H H H H	200 4 4 H U UUUUUH W H
8081 H H0512000HH8 40	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
820 1 114884 1 1 41	900 H H H H H H H H H H H H H H H H H H
451 010110000 100 140	F84 0 1 0 0 HHH 04H
200 2 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4440 1 2 1 1 1 1 2 2 1 1 2 1 2 1 2 1 2 1 2
11 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	n n n n n n n n n n n n
136 66 66 66 66 66 66 66 66 66 66 66 66 6	8088 8088 8088 8088 8088 8088 8088 808
940 Hu Hu Hu Hu Hu	0000
131 101 101 101 101 101 101 101 101 101	4121 1224 1224 1224 1224 1224 1224 1224
840 H0F884488 R H 08	295 2254 H H H 74 22 22 24
<u> </u>	2004 H 2 2 H2H 60
488 1221 842 1 4	091 4 H 80HH 180H 120H8
F84 2 21 14 H H H H H H H H H	177
<u> 10 4 н </u>	7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
187 852 852 852 852 852 853 853 853 853 853 853 853 853 853 853	4588 84444 844 844 844 844 844 844 844 8
28620 28600 28600	283 1080 1080 1080 1080 1080 1080 1080 10
	Le
Total Male Male Male Male Female Female Male Female Male Female Male Female Male Female Male Female	Total Male Female Male Male Male Female Female Female Female Female Male Female Male Female Male Female Male Female Male Female Male Male Male Female
	HSF SFSFSFSFSFSFSF
	tdeoxa
73 93	
and and	is orn orn
STE	enit col ewb
OF THE respirar nonia nonia of tonsis of tonsis and abscered abscered privately of tonsis of tonsis of tonsis abscered privately abscered privately abscered privately abscered privately absc	tre rest. actic
res	mae oden oden oden ostrr
ATC S neum neum neum neum neum neum neum neum	storate strong and an
up no price of the	SEST of of of itis ndic tina her her heceosis
Acute upper respiratory infections infections infections infections infections increase and infections increase and infections increase and infections increase and acute bronchitis, chronic and unqualified infections in and adenoids and adenoids and adenoids of lung increases of lung increases of lung increases and activities in addenoids increases of lung increases and activities increases and activities increases and activities increases and activities increases of lung increases and activities increase activities increase activities in a	Ulcer of stomach Ulcer of duodenum Gastritis and duodenitis Appendictis Intestinal obstruction and hernia colitis, diarrives of the newborn Circhosis of liver Choleithiasis and cholecystitis Other diseases of digestive system
WIII. DISEASES OF THE RESPIRATORY SYSTEM A 87 Acute upper respiratory infections A 89 Influenza A 80 Bronchopneumonia A 90 Primary atypical, other and unspecified pneumonia A 92 Acute bronchitis, chronic and unqualified A 94 Hypertrophy of tonsils A 95 Empyema and abscess A 95 Empyema and abscess A 96 Pleurisy A 97 All other respiratory diseases	IX. DISEASES OF THE DIGESTIVE SYSTEM BIGGSTIVE SYSTEM A 99 Ulcer of stomach A100 Ulcer of duodenum A102 Appendictis A102 Appendictis A103 Intestinal obstruction A104 Gastro-eneritis and colitical diseases of the newborn diseases of digestinal obstruction and hemia from hemia from the colitical colitical and colit
A 88 1 A 89 2 A 89 3 A	A 99 A 100 A 101 A 102 A 103 A 104 A 105 A 105 A 105 A 105 A 105 A 106 A 107

		81.8	Chiermediate List) SEX (Intermediate List) Total	X. DISEASES OF THE GENITO-URINARY SYSTEM Male 94 7 Female 39 5	Male	XI, DELIVERIES AND COMPLICATIONS OF PREGNANCY, CHILDBIRTH, AND THE PUERPERIUM	A115 Sepsis of pregnancy, childbirth and the puerperium Female 1 1 1 1 1 1 1 1 1	XIII. DISEASES OF THE SKIN AND Total 57 5 MUSCULOSKELETAL SYSTEM Female 31 2	A122 Infections of skin and Male 4 1 A122 Arthrits and spondylitis Male 3 1 A124 Osteomyelitis and periositits Male 3 3
M	Single		15-24 years 25-44 years 45-64 years	24 1 1 1	4	1 2	F F	818	
	-		+ 9	7 2		1		82.88	122
MARITAL	M	7	15-24 years	12 7	H 4884 H 10	, H			
IL ST	Married	AGE	45-64 years	2 20 21 11 9	и 4юч н и ю4 иничнн		H 0 HH 0	4 4 4	7
L STATUS			+ 99	33	1 847 2 68	1		13	H 460H
	M		15-24 years			· 			
	Widowed		45-64 years	7 1 2	H		_	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	q		+ 9	30 119	4000 1-10			14 10	нини
	-		Residual	ਜਜ		–		нн ;	
	-		February	12 8 5 3 7 5	400 H0H	4	2 2	0 4 2	1 2 1 1 1 2
	-		March	2 8 2	MHMH MH	1		00100	ਜਜ ਜਜ
M			May	13 11 9 6 4 5	H			400	H 2 2
MONTHS			lune	1000		23		m07-1	+
	-		July	10 4 H	NHH	H	H	ю -10	
	_		September	0470		2	H H	5 5 7 7	10
			October	119	H 4H0 0H80			m m	
			November	113 15 2 2 2 2 2	H 0H H 4			878	HH

				ANNUAL REP	ORT,	1957		49
HH	ಟಹಾಬ	846868	33	H0000 HH H000	2243	73331	54	140241 4 4144 1
TH	117	9 29 9	882	wwillwa Handw	26 16 10	100	70	80°50°5 1 1 1 45°1
. 60	0∞1	U 1044	24	4720 E 12 12 12 12 12 12 12 12 12 12 12 12 12	32	18	63	2 2 1 2 4 13
88	14	9000	1338	400000H 00HFD	20 14 16	13: 1	62 47 15	HUN4010 HUL00
.00	212	10400	39 13	10 H	24 14 10	142	69 56 13	800000 10000000
H	17	8 :040	9223	000H0000 000	19 19 8	1000	77 59 18	28884 FILL 8941
ਜਜ	040	- HHH0	23622	8208HHH : : : 46	24 19 5	3822	58 44 14	12 H 2 H 2 H 2 H 2 H 2 H 2 H 2 H 2 H 2 H
H	111	4464	28 18	86448 KH HH0	812	1112	448	113 12 13 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15
m :	13	H04400	9789	51010	238	72 2	104 27	₩42444
TH	17	190004	288	84878 818 01 01	840	147	59 15	ESTING H SHEETH
77	144	4040	1822	<u>8444₹88</u> H 08	219	7706	1032	4 6 1 6 70004
ਜਜ	899	40.07	788	87-010 B B B B B B B B B B B B B B B B B B	252	1323	881	0000 1 11404
- - :	TIIT		111		147	14.6	171	84844 8 H44
200			111		324	23 23 23	331	470470 47080
-12	_ :=	11111			10 4 H	4 H	1124	0 0 1 1 14
	ㅋ ;ㅋ							
!!					111		465	HHHH
11			111				111	
760	ਜ਼ਜ	TIII F			73 49 24	2847	09 17 17 18	8484 12 1048
.00	000	H N			44 14 14	148:	102 87 15	10040H
H	00	HHH			W 17 W	t	133	377 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
11	111				ਜ਼ਜ	1117	000	4040 1 1 1
NH.					23 23	10 H 44	133	4 4
H	ਜਜ	-			113	T23	28	8 9 N H N W H
2	ਜ਼ਜ		111		80H	107	63	84840 4 0 4 0
11	. 22	6			ਜਜ	H	108 96 12	204 x 21 x 2 2 1 x 1
NH.	178 100 78	40 33 33 27	300	46 339 24 24 16 16 10 111 111 106	32	115	125 88 45	Wow we Heaveth
10	189 108 81	2000 B	241	46 339 939 939 100 1111 1111 1106	308 199 109	189	745 586 159	204 1188 1171 120 1174 120 120 120 120 120 120 120 120 120 120
ale	l ale	ale ale	ll ale	ale ale	ul ale	ale ale	ale ale	Male Female Male Female Male Female Male Female Male Female Male Female Male Female Male
Male Female	Total Male Female	Male Female Male Female Male	Total Male Female	Male Female Male Female Male Female Male Female Male Female Male Female	Total Male Female	Male Female Male Female	Total Male Female	Male Female Male Female Female Male Female Female Male Female Female Male Female Male Female
	CHI	писией	, , a m					
All other diseases of skin and musculoskeletal system	CONGENITAL MALFORMATIONS	Spina bifida and meningocele Congenital malfornations of circulatory system All other congenital malformations	CERTAIN DISEASES OF EARLY INFANCY	Postnatal asphyxia and atelectasis Infections of the newborn newborn All other defined diseases of any infancy of early infancy infections diseases peculiar to early infactor, and immaturity unqualified	SYMPTOMS, SENTLITY, AND ILL-DEFINED CONDITIONS	A136 Senility without mention of psychosis A137 Ili-defined and unknown causes	EXVII. ACCIDENTS, POISONINGS AND VIOLENCE (CLASSIFICATION ACCORDING TO EXTERNAL CAUSE).	AE138 Motor vehicle accidents A Traffic accidents (810-825) B Non-traffic accidents AE139 Other transport accidents AE140 Accidental falls AE141 Accident caused by machinery
A126	XIV.	A127 A128 A129	XV.	A130 A131 A132 A133 A135	XVI.	A136 A137	EXV	AE1 AE1 AE1 AE1

	Single	SIB	CAUSE OF DEATH (Intermediate List) NEX Total Lib-24 years 25-44 years 45-64 years	AE143 Accident caused by fire and explosion of combustible material remain and explosion of combustible material remain and redient caused by for substance, water corrosive liquid, steam, and radiation remain and remain and remain and remain and remain remain and remain an	NXVII. ACCIDENTS, POISONINGS AND Total VIOLENCE (CLASSIFICATION AC. Male CORDING TO NATURE OF INJUNY). Female 1596 49 96 63 CORDING TO NATURE OF INJUNY). Female 1599 10 46 12 4	AN138 Fracture of skull Fennale 17 22 10 17 22 10 17 21 10 17 22 1					
MARITAL	e Married	AGE	45-24 years 15-24 years 25-44 years		28 15 9 133 27 13 6 112 1 2 3 21	0 10 10 10 10 10 10 10 10 10 10 10 10 10					
STATUS	ried		H	田	田	田	田	42-64 years	21 1 4 4 80 C	102 60 87 48 15 12	84 1 8 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Widowed			15-24 years 25-44 years		4.00-	7				
	ved		45-64 years	0	11 66 7 31 4 35	1 1 61 61 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
MONTHS	Residual January February			1	17 45 42 13 34 32 4 11 10	0 110141 1 100010					
	March			400 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 59 54 44 00 15 10	4					
	May			H 1 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	74 58 54 44 20 14	81 2400 He 1 1 1 1 1 1 1 1 1					
	July September			H	77 69 59 56 18 13	01 22 4 1 1 2 4 1 4 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5					
	_		October	и -	62 72 70 47 63 55 15 9 15	814-1400 0411 111 1866 084 4 8 8 9 0 1 199,110 81					

TABLE 12: INFANT DEATHS AND HOSPITAL INFANT DEATHS BY OCCURRENCE AND RESIDENCE FOR CENSUS DIVISIONS, ALBERTA, 1957

	Total Infant Deaths				Infant Deaths in Hospitals			
COUNTIES	Total by Occurrence	Total by Residence	By Occurrence Residence Elsewhere	By Residence; Occurrence Elsewhere	Total by Occurrence	Total by Residence	By Occurrence Residence Elsewhere	By Residence; Occurrence Elsewhere
ALBERTA	964	963	15	14	787	786	14	19
Division No. 1 Division No. 2 Division No. 2 Division No. 3 Division No. 4 Division No. 5 Division No. 6 Division No. 7 Division No. 7 Division No. 9 Division No. 10 Division No. 11 Division No. 12 Division No. 12 Division No. 12 Division No. 13 Division No. 13 Division No. 13 Division No. 13	205 24 55 14 45 300 48	23 37 34 11 26 190 32 56 13 47 265 59 30 26	2 2 19 8 3 6 47	4 5 8 10 4 8 9 2 8 12 11 7 8	19 34 24 11 12 170 22 46 13 38 268 33 31 21	31 30 9 22 155 30 48 12 40 233 43	19 19 7 3 6 46	3 8 10 4 8 9 2 8

TABLE 13: INFANT DEATHS BY OCCURRENCE AND RESIDENCE FOR URBAN PLACES OF 1,000 POPULATION AND OVER, ALBERTA, 1957

Athabasca 9 6 4 1 8 Barrhead 2 1 1 2 Beverly 7 7 7 Blairmore 1 1 1	Total by Residence	2	Docurrence
Beverly 7 7 7 Blairmore 1 1	1 7 1 1 6 1	2	7 1
Bonnyville 2 2 2 1 — 1 — 1 — 1 — 1 — 1 — 1 — 1 — 1 — 1 — 1 — 6 — — 2 — 2 — 4 1 3 3 1 4 1 3 3 1 5 6 — 8 Cardston 3 2 2 1 1 8 Cardston 4 1 3 3 2 2 1 3 4 1 3 3 1 4 4 1 3 4 4 4 1 1 4 4 4 1 1 3 4 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 <td>5111 423 :: 755175 4 :11437713 :: 31112221532221031314219 :: 513662 :: 3333223 :: 3</td> <td>3 2 2 3 1 2 2 9 9 1 1 9 9 3 3 9 4 4 3 3 2 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1</td> <td>11 6 3</td>	5111 423 :: 755175 4 :11437713 :: 31112221532221031314219 :: 513662 :: 3333223 :: 3	3 2 2 3 1 2 2 9 9 1 1 9 9 3 3 9 4 4 3 3 2 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1	11 6 3

TABLE 14 — SELECTED CAUSES OF INFANT DEATHS BY SEX AND AGE AT DEATH, ALBERTA — 1957

		Int. List No.		ALL	001-019 Tubercul 085 Measles 140-205 All mali 1827-204 Diseases 3281, 392 Outlis m 470-475 Acute up 470-475 Influenz 490-483 Freumon 470-475 Influenz 490-483 Freumon 470-475 Influenz 470-475 In
		CAUSE OF DEATH (6th Rev.)		ALL CAUSES	g Cough g Cough and aleukaemia is and aleukaemia of thymus gland deficiency is (nonmenhigococcal) eff as and over) is (4 weeks and over) is (4 weeks and over) is (5 weeks) in intestinal obstruction in intestinal obstruction in intestina and colitis al malformations t birth in inmaturity in out inmaturity in inmaturity in inmaturity in inmaturity in out inmaturity in inmaturity
Total	Under 1 Year	otal Sale		963 531 432	108 22 22 22 23 23 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25
tal	ar	emale	F	31 432	
	28	otal	T	2 640	
Tota	Under 28 Days	शिह	_	357	
	rys	emale		283	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	A	Under 1 da	M. F.	191 157	
		1 day	M.F.	53 33	E000F 8440HH
		2 days	M.F.	3 22 25	
		3 days	M. F.	14	4-070 8001 H
		4 days	Z	18 12	1 1044 0 0
		5 days	F. M. F	- 8	
		6 days	F. M. J	6 10	4 1 100 11
		7-13 days	F. M.	2 22	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		14-20 days	F. M.	20 17	0 44 11
		ZI-ZZ days	F. M.	11 8	1
AGE		espp 15 To	FI	7	
ΑT		Total 28 days to 1 year	T. M.	323 174	1122221 11210000012 1210 1210 1210 1210
DEATH		- 1919	Ŀ	149	101 101 101 101 101 101 101 101 101 101
TH	nths	28 days an	M.F.	38 42	1 810 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		2 months	M.F.	34 21	
		3 months	M.F.	20 16	0 1 10 10 10 10 10 10 10 10 10 10 10 10
		4 months	M.F.	19 14	H HH 00
		2 months	M.F.	11 13	4 44 14
		e months	M.F.	3 11 12	100 200 100
		Z months	M	-60	1 4
		8 months	F. M.	9 13	п п п п п п п п п п п п п п п п п п п
		sumom 6	F. M.	- 8	H 0 0 H0
		10 months	F. M.	-6 9	100110
		**********	F. M.	4	

TABLE 14 — SELECTED CAUSES OF INFANT DEATHS BY SEX AND AGE AT DEATH, ALBERTA—1957 (Continued)

		Int.		769 04 —Without —With in —Wi
		CAUSE OF DEATH (6th Rev.)		Maternal toxaemia— —Without immaturity —With immaturity —Without immaturity —Without immaturity Haemornhagic disease of newborn— —Without immaturity —With immaturity —Without immaturity
	Tota]	otal Year		80.00.00 - 0.00.00 1 20.00.00 4 4 4 44.00.00 4 4 4 44.00.00 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4<
	tal	emale emale		4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2
	-	otal %	T	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	otal	tale consider Section 28 Under Section 28 Under Section 29 Under Section 29 Under Section 29 Under Section 20 Under Section 2	-	484191 484
		emale o	4 M. F	4 4 4 4 4 8 8 4 4 4 1 1 1 1 1 1 1 1 1 1
		T day	M.F.	о одон они Наобо и и и и и и и и и и и и и и и и и и
		2 days	M.F. M.	
		s days	1. F. M.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		sysb A	F. M.	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		sysb g sysb 9	F. M. F	
		syab SI-7	F. M.F.	
		24-20 days	. M. F.	111 11 11 11 11 11 11 11 11 11 11 11 11
	A	ZI-ZZ days	M.F.	1 1 2 1
, i	AGE AT DE	Total 82 days to 1 year	T. M. F.	
	DEATH	28 days and under 2 months	M.F.	1-1 000 000 4-1 00 4-00 0001-100 00 00
-		2 months	M.F.	HH 0 0 H H H
201		3 months	M.F.IN	NO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		sdinom 4	M.F.	
		5 months	M.F. M.	
(pa)		sunuou 9	F.	
		7 monthm 7	F	
		sdinom 6	F. M.	
		TO months	F. M.F	
		II months	-15	

* Includes Hodgkin's disease, leukaemia and aleukaemia.

TABLE 15—SELECTED CAUSES OF INFANT DEATH BY SEX AND MONTH OF DEATH, ALBERTA, 1957

MONTH OF DEATH	ng yang yang yang yang yang yang yang ya	M. F. M. F. M. F. M. F. M. F. M. F.	5 37 33 50 36 51 33 43 36 47 36 38 24	1
r 1	Jennary		1 432 46 45	1
Total Under 1 Year	ale		963 531	144 144 144 144 144 144 144 144 144 144
	fal			
	CAUSE OF DEATH (6th Rev.)		ALL CAUSES	Tuberculosis, all forms Measles Measles All malignant neoplasms* All malignant neoplasms* All malignant neoplasms* Diseases of thymus gland Mental deficiency mandle deficiency Mentaglis (nonmeningococcal) Odits media Actic upper respiratory infection Influenza Bronchtis and over) Bronchtis and colitis Congenial malformations Injury at birth —Without immaturity —Without immaturity Postratal asphysia and atelectasis— With immaturity —Without immaturity —Without immaturity —Without immaturity —Without immaturity —Without immaturity —Without immaturity —With immaturity

TABLE 15 — SELECTED CAUSES OF INFANT DEATH BY SEX AND MONTH OF DEATH, ALBERTA, 1957 (Continued)

	1		E.	
		December	M.	н ннн
_		**********	ഥ	u uu u
ומבח		November	Ä	
		Осторет	E	
Continued (Continued		September	M. F.	00
, LO			F.	0
177	H	tauguA.	M.	
	MONTH OF DEATH	July	뜨	
7	OF I	- AftiL	Z.	
(++)	HI	əunr	[±	
	ION		F. M.	
	2	May	١.	
	-		F. M	
		linqA	M.	
		*******	F.	H H H N N N N N H H H N
	_	March	M.	11 WW HH HH HH QM HW H H
		February	F.	
	-	<u></u>	Z.	
		January	표	44
		emale	M	4 4-4 0000140016011888 0000 1 00000010
	al r 1			
	Total Under 1 Year	lalu Talu	VI	H
		lsto	L	86000000000000000000000000000000000000
		CAUSE OF DEATH (6th Rev.)		Maternal toxaemia— —Without immaturity —With immaturity —With immaturity —With immaturity —With immaturity —Without immaturity —Without immaturity —Without immaturity —Without immaturity —With immaturity III-defined diseases peculiar to early infancy— —With immaturity —With immaturity III-defined and unknown causes Accidents caused by fire Inhalation and ingestion of food or other object Accidents caused by fire Inhalation and ingestion of food or other object Accidents caused by fire Inhalation and ingestion of food or other object Accidents and parasitic diseases) (Allergic, etc. diseases) (Allergic, etc. diseases) (Allergic, etc. diseases) All other causes All other causes All other causes
		Int. List No.		770

* Includes Hodgkin's disease, leukaemia and aleukaemia.

TABLE 16 — DEATHS AT ALL AGES ACCORDING TO THE INTERNATIONAL ABBREVIATED LIST OF 50 CAUSES, CANADA, 1957

			ANNUAL REPURI, 1997
1		.T.W.N	8.
		иоупд	H 33 H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		B.C.	2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
		Alberta	88 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		Sask.	22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	T	Manitoba	11.00
		ortatrio	203 18 4 4 4 4 4 4 4 4 6 5 19 10 10 10 10 10 10 10 10 10 10
		биерес	448 655 657 657 657 657 657 657 657 657 657
		N.B.	8449 11 1 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		.s.N	44.81 11.12.4.1.18.18.18.18.18.18.18.18.18.18.18.18.1
		P.E.I.	11
7		.bilv	48 8 9 9 1 1 1 1 2 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1
	la	1957	1035 1488 1488 1525 253 253 253 253 253 253 253 253 253
	Canada	1956	1077 1777 29 20 20 20 20 20 20 20 30 30 30 30 30 30 30 30 30 30 30 30 30
TABLE 10 DEATHS AT ALL AVES ACCOMPTING TO THE INTERNATIONAL MEDICAL		CAUSE OF DEATH	Tuberculosis of respiratory spstem Tuberculosis, other forms Supplies and its sequelae Typhold fever Typhol
IADEE		Int. abbrev. List. No.	HERE SEE SEE SEE SEE SEE SEE SEE SEE SEE

TABLE 16 — DEATHS AT ALL AGES ACCORDING TO THE INTERNATIONAL ABBREVIATED LIST OF 50 CAUSES, CANADA, 1957 (Conf.d.)

			BUREAU OF VITAL
ır a)		.T.W.N	88 11 88 11 88 1 88 1 88 1 88 1 88 1 8
100)		Хикоп	<u> </u>
1221		B.C.	666 176 231 231 235 305 305 305 273 273 273 163 255 273 3711
W CW		Alberta	20 176 176 176 176 176 176 176 176 176 176
, CAI		Sask.	21120 1140 1181 1181 1181 1181 1181 1181 118
SECO	1	sdotins M	22 101 101 177 177 177 177 177 177 177 177
20.0		Ontario	
OF 0		&nepec	18 131 175 55 56 101 105 55 56 101 105
TOTAL		N.B.	18 96 107 133 138 158 158 151 17 17 17 18 18 18 18 18 18
7777	***************************************	.s.N	33 103 103 90 90 90 131 142 142 142 142 142 142 142 142 142 14
77 4 77		P.E.I.	22 12 12 12 13 16 16 16 17 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18
TOOL		.bilv	200 200 200 200 200 200 200 200 200 200
T T T T T T T T T T T T T T T T T T T	da	1957	255 255 257 225 3232 3232 845 10,685 369 10,685 369 369 379 379 379 379 315 315 34 34 315 34 34 34 315 34 34 34 34 34 34 34 34 36 36 36 36 36 36 36 36 36 36 36 36 36
77777	Canada	1956	632 278 2838 3192 3192 10,489 3491 68 68 5712 1226 188
COUNTY OF THE PROPERTY OF THE		CAUSE OF DEATH	Hyperplasia of prostate Complications of pregrancy, childbirth and the puerperium Composital malformations Burth injuries, postatal asphyxia and atelectasis Burth injuries, postatal asphyxia and atelectasis Other diseases peculiar to early infancy and immaturity unqualified Semility without mention of psychosis, ill-defined and unknown causes All other diseases Motor vehiclaeases Nontraffic accidents Nontraffic accidents Nontraffic accidents Suicide and self-inflicted injury Homicide and operations of war All causes
	1	abbrev. List. No.	B39 B40 B40 B43 B43 B44 B44 B64 B64 B64 B64 B64 B64 B64 B64

* Includes Hodgkin's disease, leukaemia and aleukaemia,

TABLE 17—DEATH RATES PER 100,000 POPULATION AT ALL AGES ACCORDING TO THE INTERNATIONAL ABBREVIATED LIST OF 50 CAUSES, BY PROVINCES, 1957

CAUSE OF DEATH
parasitic
4
except diarrnoes of newborn

TABLE 17—DEATH RATES PER 100,000 POPUL ATION AT ALL AGES ACCORDING TO THE INTERNATIONAL ABBREVIATED LIST OF 50 CAUSES, BY PROVINCES, 1957 (Continued)

							_	_	_	_				
	Canada	da							τ					
CAUSE OF DEATH	1956	1957	Mfld.	P.E.I.	.s.v	N.B.	оверес	Ontario	Manitob	Sask.	Alberta	B.C.	ионпх	.T.W.N
Hyperplasia of prostate	3.9		4.5	6.1	4.7	3.2	2.8	3.1	2.9	-4.0	2.0	i	1	
ations of pregnancy, childbirth and the puerperium	1.7		4.7	17.0	1.9	10.0	4.7.5	1.0 7 1.0	10.2	10.6	1.0			
Congenital manormations Birth injuries, postnatal asphyxia and atelectasis	19.8	19.5	19.7	12.1	12.8	18.9	23.8	18.1	20.1	15.9	20.2	15.5	25.0	10.5
	4,4		7.0	1.0	5.3	5.8	8.2	2.5	4.8	2.2	3.4			
Other diseases peculiar to early infancy and immaturity unqualified	22.7		36.2	22.2	18.7	27.6	30.9	19.6	16.9	50.6	22.5			
without mention of psychosis, ill-defined and unknown causes	11.3		72.5	9.1	10.4	17.2	8.9	3.1	9.3	8.9	26.6			~
	65.2		51.2	82.8	69.5	57.9	8.19	62.8	0.87	72.5	27.8			
Motor vehicle accidents	22.1		8.9	16.2	20.5	28.0	24.8	23.2	19.0	17.9	21.3			
Traffic accidents	21.7		8.0	15.2	19.7	26.7	24.5	22.4	17.9	16.7	19.8			:
Nontraffic accidents	0.4		0.9	1.0	9.0	1.2	0.3	0.8	1.0	1.1	1.5			:
All other accidents	35.5		37.6	24.2	37.0	38.8	32.0	36.1	35.0	33.1	32.9		116.7	200.0
Suicide and self-inflicted injury	7.6		3.3	6.1	7.1	3.2	5.4	8.7	8.0	8.5	9.1			:
Homicide and operations of war	1.2		0.7	ī	0.9	1.1	0.8	1.4	1.0	0.6	0.9		16.7	i
All causes	820.6	823.3	750.7	925.3	851.4	813.3	761.5	874.5	856.7	767.1	711.6	922.1	775.0	775.0 1,710.5

* Includes Hodgkin's disease, leukaemia and aleukaemia. † Less than 0.1 per 100,000 population.

TABLE 18—CERTAIN CAUSES OF DEATH, BY NUMBERS AND RATES FOR EACH YEAR OF THE LAST DECENNIAL PERIOD

	Rate p	Number of Deaths	000,001 req estantion of the following the f	Number of Deaths 000.001 reg ets 8	Rate per 100,000 Population Number of Deaths	Rate per 100,000	Population Number of Deaths	Rate per 100,000 Population	Number of Deaths	Rate per 100,000 Population	Number of Deaths	Rate per 100,000 Population	Number of Deaths 000,000 Pate per 100,000	Population Number of Deaths	24. 000,001 rag atsA	Population	Number of Deaths Rate per 100,000
Diseases of the Heart 2371 Cancer 1282 Diseases of the Arteries 254 Violent Deaths (Suitides excepted) 640 Polimonary Tuberculosis 651 Diffusers 1282 Diffusers	****	4411		2420 1234 173 672 326 64	6411		6411		6411		CAL	224 113 60 60 36 122	0046 997 133 573 275 137	64	****	-	282.38
Interest	1130 08 H 21 11 11 11 11 11 11 11 11 11 11 11 11	25 1 1 8 8 8 4 4 4 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	112877	8836 836 836 836 836 836 836 836 836 836	4.0 00 00 10 10 10	11,888,832,94	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2011 2017 2017 2017 2017 2017 2017 2017	44746474	477	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	800 mm m	69822290 1139991 1139991 1139991 1139991 1139991 1139991 1139991	200000000000000000000000000000000000000	211 221 156 668 833 17 12 13 15 15 15 15 15 15 15 15 15 15 15 15 15	442007772 11 6	259 258 258 258 258 258 258 258 258 258 258

100	2
T	i
<	1
E	A LIBERT A
5	۲
TOTAL	2
-	
1	į
	4
TO V Z	á
5	G
~	1
CEV DV	7
P	ľ
K	2
F.	77
5	7
	į
8	
1	4
<	į
G	ā
2	7
1	0
CALICE AND	1
ζ)
5	Į
0	A
	а
J	9
IC	2
MIC	2
TANK	
DIAME	DIANS
ATDIA MIC 1	
TAIDIANC DV	TANDIAINS D
TAIL A MIC 1	THUMBERS D
12	4
12	4
12	4
12	4
12	4
12	4
DEATH OF TAINING	4
DEATH OF	
DEATH OF	
DEATH OF	
10 DEATH OF	
10 DEATH OF	
10 DEATH OF	
10 DEATH OF	
חס חידאים ח	

I ADICE I	19 — DEATH	HI _	OF INDIANS BY	DIA	2	3	CAUSE	AIND	2	SEA,	DY A	AGE, AGE	AL.	ALBERTA,	Α,	1957						
CAUSE OF DEATH (Intermediate List)	SEX	Total	Under 1 year	7 years	3 years	4 years	5-9 years	10-14 years	15-19 years	20-24 years	25-29 years 30-34 years	85-39 years	40-44 years	45-49 years	50-54 years	s163y 96-56	60-64 years	65-69 years	70-74 years	75-79 years	8169V 98-08	+ 58
ALL CAUSES	Total Male Female	281 150 131	110 57 53	22 10 12	3 8	861	200	ਜਜ	೧೯೧೮	890	400	111	123	ਜਜ	চলক	1188	00 FU CU	- wr-n	405	1200	171	
I, INFECTIVE AND PARASITIC DISEASES	Total Male Female	28 16 12	10 00 01	ಣಣ	0 H H		ਜਜ		H H	8 H 8	2 2	ਜਜ	277		NHH			ਜਜ	анн			
A 1 Tuberculosis of respiratory	Male	1 00			-			-	Ţ			; H	:						H	п	7-1	
63 7	Male Female			TII	::=			111	7	-	N	111							H	H		
A 12 Tubhoid fever	Female Male		1 1	: : : :			11	11								11			11			
	Female	-	-																			
A 22 Whooping cough	Female Male	(C)	Н	101			II	1 1				: :										
A 23 Meningococcal infections	Female Male	п н	H :	T	H			11	1 1		- : : - : :				11	11	11		11			
A 32 Measles	Female Male	ਜ਼ਿ	1 1	H			II	11		1 1	11				1 ;						1 1	
A 39 Hydatid disease	Female Female	- I	7		111				111			111	 									
II. NEOPLASMS	Total Male Female	22 13			н н	22	ਜਜ				1	ਜਜ		HH :	H H	9074	H H	122	400		ਜਜ	
A 46 Malignant neoplasm of stomeon as stomeon except rectum A 50 Malignant neonlasm of trachea and of	Male Female Male Female	H H														H			H			
bronchus and lung not specified as secondary	Male Female	ਜ	11				1 :	I	11										H			

Not stated

BUREAU OF VITAL STATISTICS

ווון ממש ווחו בו בו שהמאון ממש ווון ווון

OF INDIANS BY CAUSE AND SE	Total Total Total Tyear 2 years 3 years 4 years 5-9 years	Male 2 1 1 Male 1 Male 1	Total 32	Male 2 Female 2 Male 10 Male 2 Male 2 Male 2 Male 2 Male 2 Female 2 Male 2 Female 1		Male 8 2 1
SEX, BY	20-24 years					
AGE, AL	25-29 years 30-34 years		213	- - -		
ALBERTA, 1957 AGE	35-39 years		HH	11111111111		
	45-49 years 50-54 years 55-59 years					
(Continued)	8789 \$-69 98878		418		ि नन - न न	F
	75-79 years	- - - - - -	400	100	1 1 1 1	- -
	80-84 years		2000	мн н н	100	0

111				ਜਜ			-	- - 	
111		 	- I I I					-	
111		111							
	-						-		
			_		-	- : : : 	-		
	_		_ ! ! !						
1 1 1				111					
					- 	<u> </u>	-		
111				-		111	-		-
	-			CI CA		<u> </u>	-	-	-
		- : : :	- : : :	ਜਜ :	-			- 1 1 1	
		- : : :		<u> </u>			-	: : :	
	-	-		_ <u> </u>		- : : :	- : : : : : : : : : : : : : : : : : : :	- : : :	
	<u> </u>		111	- : : : - : : :	-	- ; ; ;	-		
	-	· i :			1111			1 1 1	
	: : : : : : : : : : : : : : : : : : :		- 1 1 1	_ ; ; ;		ਜ ;ਜ	:::::: -:::ਜ		
ਜਜ :		- : : :				· - i i i	-		
	ਜ਼ਜ਼ : : : :					2 2	н п		
2000	ო∞ ; ; ; ⊣					040	н н н н н	37	H 004044
100	; : :	88		99 :	0 4	247		17021	<u> </u>
Total Male Female	Male Female Female Female Female Male Male	Tota! Male Female	Male Female Male	Total Male Female	Male Female Male Female	Total Male Female	Male Female Female Male Male Female	Total Male Female	Male Female Male Female Male Female Female Female
IX. DISEASES OF THE DIGESTIVE SYSTEM	A104 Gastro-enteritis and colitis, except diarrhoea of the newborn	X. DISEASES OF THE GENITO-URINARY SYSTEM	Allo Infections of kidney	XIII. DISEASES OF THE SKIN AND MUSCULO-SKELETAL SYSTEM	A121 Infections of skin and Subcutaneous tissue A122 Arthritis and spondylitis	XIV. CONGENITAL MALFORMATIONS	A127 Spina bifida and meningoele A128 Congential malformations of circulatory system A129 all other congenital malformations	XV. CERTAIN DISEASES OF EARLY INFANCY	A130 Birth injuries

7
16
2
÷
Continue
_
1957
=
۷
1
24
3F
A
BY AGE, ALBERTA
5
A
Ы
BY
SEX
S_2
AND
V
国
CAUSE
7
\tilde{c}
Ы
INDIANS BY
S
Z
IA
A
Z
ľъ.
OF
H
DEATH
A
Ö
П
-
TABLE 19-
国
SI
AI
H

		betata toM		111	1,11	111	:								111
		+ 58		H H	iii	111	-						11		111
		80-84 years		8 H 8	7 7		:						11	11	TIT
		75-79 years		211	ਜਜ	ਜਜ	:						11		<u>-</u> -
		70-74 years		H H	 	000		TIII							
ed)		65-69 years		ਜਜ :	-		1	1111						1 1	111
(Continued)		60-64 years	TI							11			1 1	11	III
Con		55-59 years	11				-	1111	1 1	11	T			1 1	TTT
1957 (20-24 years		ਜ਼ਜ	1117					11		- 		11	TIT
		45-49 years						1111	11	11				1	TIT
RTA		40-44 years	TI	111		2111	H	FII	T	11			II		711
ALBERTA,	AGE	35-39 years	TI	111				1111	11	11	1 1		11	11	
	4	30-34 years	11	111		000		THIT	11		T	-	11	<u></u> H	TIT
AGE,		25-29 years	11			HH :		TIT	11	11		TITE			TIT
BY /		20-24 years	11			ကက	Н	-		11		H	1 1		Н
		15-19 years				00	Н	-		11	11	1111	H	П	
SEX,		10-14 years					H	H		11	11		T		
AND		5-9 years					-				11		īī	11	
		4 years					-		11	11	П		II	II	
CAUSE		3 years				HH	1				7		II	II	TII
		Z Vears				00	М	-	11	TI	1	П	11		
S BY		I year					1		1 1	11	1			П	
[AN		Under 1 year		400	100	00	-			H	1		TT	2	
INDIANS		Total		133	1147	2822	9	10 H	H	FFF	7	⊓n :n	H	100	
OF]		SEX	ale	l ale	ale	l ale		ale	rle	ale		lle lle	rle J		ule ule
			Male Female	Total Male Female	Male Female Male Female	Total Male Female	Male	Female Male Female Male	Female Male	Female Male	r emale Male	Female Male Female Male	Female Male	Male	Female Male Female
TABLE 19—DEATH		CAUSE OF DEATH	A135 III-defined diseases peculiar to early infancy, and immaturity unqualified	XVI. SYMPTOMS, SENILITY, AND ILL-DEFINED CONDITIONS	A136 Senlity without mention of psychosis A137 Ill-defined and unknown causes	EXVII. ACCIDENTS, POISONINGS AND VIOLENCE (CLASSIFICATION ACCORDING TO EXTERNAL CAUSE)	AE138 Motor vehicle accidents	A Traffic accidents (810-825) B Non-traffic accidents	AE139 Other transport accidents	AE140 Accidental poisoning	AE141 Accidental falls	AE143 Accident caused by fire and explosion of combustible matter AE145 Accidents caused by	AE146 According Incoming and	AE147 All other accidental	AE148 Suicide and self-inflicted injury

	-	-	-	-	-	-	_	-		-	-	~	-	-	-	_	~		-	-	-	-	
NXVII, ACCIDENTS, POISONINGS AND VIOLENCE (CLASSIFICATION ACCORDING TO NATURE OF INJURY)	Total Male	888	m m		20	H :-			200	000	ਜਜ	- m m		277	:				m m	ਜਜ	-		: :
AN138 Fracture of skull	Male	23				-		-		Н					· :			1				:	:
AN139 Fracture of spine and trunk	Female	0		-								-					: :				-	-	: :
ANTA2 Head intum (evoluding	Female	. 0							Ī	T		-							-	T	1		
fracture)	Female	0	-	: : [: : -			T	1 :	4							! !		:	1		1	
AN144 Internal injury of chest,	Male	~ -	÷	- -	<u>:</u> -	 -	 	<u> </u>	T	1	-	-	-	: ਜ	-			-	Н	-	1	:	:
AN145 Laceration and open wounds	Male	774		: : T [: : []					H			-	: : : :	1 1					11	1	: :	: :
AN149 Burns	Female		-	-		 -	- 		-	:				: 	 -	 	-	-	-	-		-	:
ALVIES DULIS	Female	4	- -	1	: : - :		 		1					· ·					٦ :				: :
AN149 Effects of poisons	Male	77	H	-	+	-	-! 	-	T	1	-	Н	-	-	-		-	-	i	:	1	-	;
AN150 All other and unspecified effects	Female	T 4	2	1		- -	-		- -	:	1	-	1				-	1	;		1	-	:
of external causes	Female	F	-	·		- -				-	-	_	_		,			T		-		1	
			-	-	_	_				-		-	-	-					-		-	-	1

ı	ľ		
8	ļ		Ç
1		į	
١	,		
į			,
i		ì	
Ļ		į	P
į			Ė
ì		2	3
Ş			•
þ			
4			ĺ
ŧ	3	Y	Š
í		Ē	1
١	ì		į
٩			Ļ
þ	۰		
ļ			ļ
	Ī		i
			į
į			1
Ī			2
ζ	2		2
	ļ		ļ
ì			
ø			4
4			Į
,			
ŀ		,	
			į
þ			
4	4		ĺ
3			į
t			i
Į		2	
ķ			L
ĺ	2		4
4	4		ĺ
ķ	į		
ļ	i		
ľ		4	4
ı			
į			
ı	í		į
į	į	ĺ	į
ĺ	ĺ	ĺ	ĺ
į	į		į
J	į	4	į
ŀ		i	ĺ
Ú	į	ļ	į
į	į		į
ĺ	ĺ	ĺ	ĺ
ķ	į	į	ŕ
Ø	ĺ	į	ĺ
ĺ	í		
į	į	ĺ	į
ĺ	ĺ	į	1
į	į		į
ı	THE PARTY AND A PARTY AND A PARTY AND A PARTY AND AND ADDRESS OF THE PARTY AND ADDRESS OF THE PA	ĺ	į
			ı
Ø	Š		į
ı	í	ĺ	١
Ú	ĺ		
ı	ĺ		ĺ
	í		í
ĺ	į	į	,
			1
ı		ĺ	ĺ

		85+4 years +58 Not stated	10 6 1 4 8		-						 	
		75-79 years	1001	ਜਜ	-			11	11			
		70-74 years	100 100				T 	11	11	111		
1957		ele years	· _			-			: :	· · ·		
		60-64 years	7041								H H	
ERT		55-59 years	₽H4	_							SHH	
ALBERTA,		50-54 years	H H	H H			 			 		
		45-49 years			-			!!		 		
AGE,		40-44 years						!!				
BY	AGE	35-39 years	ਜ਼ਜ	H H			ਜ :		! !			
SEX,		30-34 years	460-						1 1			
DS		STS-29 years				111		1	1 1			
AND		20-24 years	E 22 C					11		-		
CAUSE		15-19 year	211				11	1 1				
CAI		10-14 years	111				TT	11			111	
BY		5-9 years	HH :					11			ਜਜ	
		4 years	2111				11	11			ਜਜ	
[A]		3 years	7 7					11	11			
Z		2 years	9000	H H		H	TT	11	11		H H	
ILX		l year	12 5	00		111	11	==	H		111	
TREATY INDIANS,		Under 1 year	888	400	П		H	1 17		1		
OF T		LatoT	141	122	т п			17		1 17	696	н на ман па
DEATHS (SEX	Total Male Female	Totai Male Female	Male Female	Male Female Male	Female Male	Female Male	Female Male	Male Female	Total Male Female	Male Female Female Male Female Female Female Female Female Female Female Female
TABLE 20 — DE		CAUSE OF DEATH (Intermediate List)	ALL CAUSES	I, INFECTIVE AND PARASITIC DISEASES	A 1 Tuberculosis of respiratory system	A 2 Tuberculosis of meninges and central nervous system A 5 Tuberculosis, all other forms	A 20 Septicaemia and pyaemia	A 22 Whooping cough	A 32 Measles	A 39 Hydatid disease	II. NEOPLASMS	A 46 Malignant neoplasm of storace a storace a Saman neoplasm of bore and connective tissue and connective tissue and connective tissue and unspecified sites and unspecified sites A Cher digestive organs (155–159)

						111111		
							210	
				11.	н ін	H	NHH	ना।ना।।
	N : F	-	-		111		244	नना।।।।।
	i H	1111		11	111		HH !	
		1111			111		ਜਜ :	
				11		-	ਜਜ	
TITIFI				1			w w	N
				11	111			
			1111	1 1				
			1111	T			111	
							H H	
		1111			111		111	
1111111111111	- -	1111	T T				111	
				11				
			1111	11			111	
H H				1 1	ਜ਼ਜ਼			
	TII							
7777777				-				
11111111	ਜਜ :	H				H		
	ගෙහ	ਜ਼ਜ਼ਜ	H H	77	446	HH H H	14	H H H H M M M M M M M M M M M M M M M M
Male Female Male Female Female Female Female	Total Male Female	Male Female Male Female	Male Female Male Female	Male Female	Total Male Female	Male Female Male Female Male	Total Male Female	Male Female Male Female Female Female Male Female Male
c system	III. IV. ALLERGIC DISORDERS AND ENDOCRINE METABOLIC AND BLOOD DISEASES	A 62 Thyrotoxicosis with or without goitre A 63 Diabetes mellitus	A 64 Avitaminosis and other deficiency states A 65 Anaemias	A 66 Allergic disorders; all other endocrine, metabolic and blood diseases	VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS	A 70 Vascular lesions affecting central nervous system A 71 Normeningococcal meningitis A 77 Otitis media and mastoiditis	VII. DISEASES OF THE CIRCULATORY SYSTEM	A 81 Arteriosclerotte and degenerative heart disease A 82 Other diseases of heart A 83 Hypertension with heart disease A 84 Hypertension without mention of heart A 85 Diseases of arteries

TABLE 20 — DEATHS OF TREATY INDIANS, BY CAUSE AND SEX, BY AGE, ALBERTA, 1957 (Continued)

					î						1	4	A.GE		, , , ,	TAG	AGE		non				
CAUSE OF DEATH (Intermediate List)	SEX	Total	Under I year	1 year	2 years	4 years	5-9 years	10-14 years	15-19 years	20-24 years	25-29 years	30-34 years	25-39 years	40-44 years	45-49 years		55-59 years 60-64 years	65-69 years	70-74 years	75-79 years	siesy 48-08	+ 58	Not stated
VIII. DISEASES OF THE RESPIRATORY SYSTEM	Total Male Female	38 21 17	13	F 82 4	22					111									HH :				
A 88 Influenza	Male Female	47	구ィ	H (2)	- : :		- ; ;											H :			-	4	
A 90 Bronchopneumonia	Male Female Male	7 7	9		- i	1 1	11												 			*	
A 91 Primary atypical, other than unspecified pneumonia A 92 Acute bronchitis	Female Male Female Male	440	0000	1 12	Н													1111	: :				
A 93 Bronchitis, chronic and unqualified	Female Male Female	ㅋㅋ	ㅋㅋ														1 1 1	1 1 1	 			111	
IX. DISEASES OF THE DIGESTIVE SYSTEM	Total Male Female	10	200	H H		 																	
A104 Gastro-enteritis and colitis, except diarrhoea of the newborn A105 Cirrhosis of liver	Male Female Male	es 10 ←	04	; ; [H]	H																		
A107 Other diseases of digestive system	Female Male Female	-	131													1 1 1	1 1	 			111		
X. DISEASES OF THE GENITO- URINARY SYSTEM	Total Male Female	нн ;										ᅟᅟᅟᅟ						 					
A110 Infections of kidney	Male Female	н	- 1 1									ਜ											
											-		1		-	-	-						

						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		001	
						- 			
80	2								
								пн <u> </u>	
								- III	
		422		21	0001000	213	7		
	Male 3 Female	Total 6 Male 2 Female 4	Male 1 Male 1 Male 1 Male 1 Male 2	Total 21 Male 9 Female 12	Male 2 Female 2 Female 2 Female 2 Male 1 Female 6 Male 6 Female 6	Total 10 Male 4 Female 6	Male 1 Female 3 Male 3	Total 7 Male 5 Female 2	Male 1 Female 1 Male 1 Female
XII, XIII. DISEASES OF THE SKIN AND MUSCULO-SKELETAL SYSTEM	A122 Arthritis and spondylitis	XIV. CONGENITAL MALFORMATIONS	A127 Spina bifida and meningocele A128 Congenital malformations of circulatory system A129 A110 ther congenital malformations	XV. CERTAIN DISEASES OF EARLY INFANCY	A131 Postnatal asphyxia and areletasis are the newborn A132 Infections of the newborn A134 All other defined diseases of early infancy A135 Ill-defined diseases peculiar to early infancy, and immaturity unqualified	SYMPTOMS, SENILITY AND ILL-DEFINED CONDITIONS	A136 Senlity without mention of psychosis A137 Ill-defined and unknown causes	EXVII. ACCIDENTS, POISONINGS AND VIOLENCE (CLASSIFICATION ACCORDING TO EXTERNAL CAUSE)	AE138 Motor vehicle accidents A Traffic accidents (810-825) AE140 Accidental poisoning

TABLE 20—DEATHS OF TREATY INDIANS, BY CAUSE AND SEX, BY AGE, ALBERTA, 1957 (Continued)

	Not stated			!	:		:	!!	:	!		!	-	:			-
	+98				!		:						-	•			
	80-84 years			:	!		:					:		i			
	sassy es-27		i	;	1	1 1			!			•	:	!			!
	70-74 years	1	7	;	:	1 1	:	22		-	H		_	:	1		-
	65-69 years		1	-	:		:		!				1	;	:		1
	60-64 years		:	1	:	1 1	:	11	-	-	1	-	1	!	:		1
	55-59 years		:	;	:	1 1	:	11	-	-	! !	1	1	-	:		ī
	50-54 years		1	:	:	1 1		1 1	1	1		-	1	1	:		-
	45-49 years	1	;	:	1		:	11	!	-		1	:	;	-		i
	40-44 years		1	i	Ī	7	:	= ;	-	1			:	1		1	T
AGE	35-39 years	1	i	-	1	11	:	11	1	-	: :	i	Ţ	:			-
A	30-34 years		:	Ī	:		i	11	-	1	: :	-	-	i	!		-
	25-29 years	T	-	-	1	П	1	11	-	ì	: :		-	:			i
	20-24 years		1	:	!	Н	1	ਜਜ	1	Ħ			-	I	1		Ī
	2189V 9E-ZI	1	Ī	ī	1	H	;	ਜਜ	-	H	1		;	i	1		:
	10-14 years		-	1	1	II	;		-	-			:	1	1		-
	5-9 years		ī	-	-	T	:		1	-	1	1	;	i	1		ī
	4 years		:	1	ī	T	i		1	T	1		1	1	I	П	1
	S years		1	1	;	T	!	П :	-	T	-		:	:	-	1	ī
	2 years	1	-	1	-	ī	i		T	1	1		:	ī	:		i
	д уеаг		1	T	1	T	1	11	-	-	!		-	1	:	1	-
	Under 1 year		-	1	- -	ī	1	HH	1	1	:		į	:	1	Н	-
	LatoT	=	П		ri r	7 7 7	1	1-10	~	8	-	1	7	Ī	7	1 -1	F
	b/		-	 e		 <u>ə</u>	le e				 e	le		 e	0		e
_	SEX	Male	Male	Female	Male	Male	Female	Total Male	Fema	Male	. Female Male	Fema	-Male	Fema	Fema	Male	. Female
	CAUSE OF DEATH (Intermediate List)	AE143 Accident caused by fire and explosion of combistible material	AE145 Accident caused by firearm		AE147 All other accidental causes	AE148 Suicide and self-inflicted	injury	NXVII. ACCIDENTS, POISONINGS AND VIOLENCE (CLASSIFICATION AC-	CORDING TO NATURE OF INJURY)	AN143 Head injury (excluding	Iracture)		AN148 Burns		AN149 Effects of poisons	AN150 All other and unspecified effects	of external causes

TABLE 21 — SELECTED CAUSES OF INFANT DEATHS OF INDIANS, BY SEX AND AGE AT DEATH, ALBERTA, 1957

ı		1 1	01		11111
	11 months	M.F			
	10 months	M.F.	3		
-		F	<u>81</u>	0	
	sutnom 6	M.	01		
	8 months	E.	3 4		
-		Z -	H		
	7 months	M.F.	60		
1	e months	[E.	70	0 0 1	
		M.		<u> </u>	
	5 months	M.F	60	0 - 1	
	sunuou p	Ei.	4		
		X.	6 4	() () () () () () () () () ()	
	s months	M.F	4	· · · · · · · · · · · · · · · · · · ·	
	2 months	E	4	H 0 H	
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	M	63		
H	28 days and under 2 mos.	M.F	6	101 1 11 11 11 11	
EAT		Œ	41		нн
AGE AT DEATH	28 days to 1 year	M	35	1010240810	H01HH
A.	LetoT	H	92	101048 to 10 10 10 10 10 10 10 10 10 10 10 10 10	
AGE	21-27 days	M.F.	-		
	14-20 days	Œ.	i		
		M	- 2 8		
	7-13 days	M.F			
	efnn o	E			
	6 days	Z.	Ħ		
	5 days	M.F.			
	o (mn v	F	+		
	4 days	M	Ħ		
	s days	M.F			
	e/mp #	E.	-23		
	2 days	_W	7		
	1 day	M.F.	-4-	H	
	Under 1 day	F. D	-23	нн онно	
	neb t reball	Ŋ.	-6	2 11 11 17 17 17 17 17 17 17 17 17 17 17	
	28 days	T. F.	212		
	Total under	T. M.	34 22	и 4-и-4-808-4-и-и-и-108 киоди	
	male		53	H4460 00 00 00 00 00 00 00 00 00 00 00 00 0	77
Total	sie year	W	57	ни наимаманная юм нининияя и наями и	HH H
L	Late Late		011	нанаровитанная в напан и	-22-1
	CAUSE OF DEATH (6th Rev.)		ALL CAUSES	Tuberculosis, all forms Measles Measles Meaningtis (nonmeningococcal) Influenza Promeinis Gastro-enteritis and colitis Promein immaturity Without immaturity With immaturity With immaturity Without immaturity With immaturity Within immaturity Within immaturity With immaturity With immaturity With immaturity With immaturity With immaturity With immaturity With immaturity With immaturity With immaturity With immaturity With immaturity With immaturity With immaturity With immaturity	(Infective and parasitic diseases) (Allergic, etc. diseases) (Diseases of digestive system) All other causes
	Int. List No.			001-019 056 085 085 086 480-483 490-483 490-483 750-759 760, 761 0 762 0 763 0 764 0 771 0 772 0 773 0 773 0 774-776 775 195 1852(4) 182925 18 182925 18 182925 18 18294 18 18294 18 18 18 18 18 18 18 18 18 18 18 18 18 1	Class II Class III Class IX

TABLE 22—SELECTED CAUSES OF INFANT DEATH OF TREATY INDIANS BY SEX AND AGE AT DEATH, ALBERTA

	10 months	F. M.F.								İ								1					
		F. M.		_		-	2	+	<u> </u>	+	-		1			+	- !	+	+		-	-	
	sdinom 6	M	7	-		Ť	H	-	ii	Ť	Ť		+			-	!	÷	1		<u>: </u>	-	
	8 months	M.F.	1 3			ਜ ::	- I	-	1 1	1			:			1			1			1	
	7 months	M.F.						1		1			-		-	1	-	1				-	
	shinom 8	M.F.	1 4			-	H	10	4 :	1	1		Ŧ		1		1	Ī	H			İ	
	2 months	M.F.	1 2	İ		İ	H	İ	1	İ	1		İ		÷	1		1				Ė	
	4 months	M.F.	3 2	-	-	İ	2 1	-		1	İ		Ŧ		İ	-	1	1		 		1	
	s months	M.F.	4-8			<u> </u>	3 1	İ	н	İ			1		777	- -	-	İ				1	
	sdinom 2	M.F.			Ħ	<u> </u>		-		+	-		1		İ	<u> </u>	<u></u>	<u> </u>		 		-	
H	28 days and under 2 mos.	M.F.	2 2	- !		-		-		-			-		-	:	-	C	:			1	Н
DEATH		드	-22		: : 	<u>:</u> -	170	<u>-</u> 4	1 1	-		÷	-				+		2 1				H
AT DI	Total 28 days to 1 year	T. M.	44 22 2		1-1			2 2 2				-			77	٦	-	Ī	3.4	-			
AGE A	21-27 days	F.				1	-										-						
4	14-20 days	M.F. M	-													:		-					
	7-13 days	M.F.	- m						=	1			-				1		9				
	6 days	M.F.IN							İ	-							1	1					
	s days	Ŀ										-			1		-	1					1
	4 days	M.F. M							-									-					1
	3 days	M.F. IN	<u>_</u>						+							-							-
	sysb S	M.F.	-2						1			-	+		1	-	-						-
	t day	M.F.	2								1 1							- 6					-
	Under 1 day	M.F.	-2						-			-	-	H	-			i=	Ť				
	28 days	M.F.	6		+	-	-				2		- - -					. 65	1				1
	Total under	T. IN	18		İ	H	-	ii	030	10	14	m -			1								1
al	emale e	H	31	П	П,		10 r						1.	-	٦,		i	9		1			H
Total	Kea Kea	NI.	공	П			H				2									a	-	171	:
	Isto	L		==		707	<u>-</u> -	9 9	40	: ;				:	7 (7)	1		11	60		-	: :	
	CAUSE OF DEATH (6th Rev.)		ALL CAUSES	Tuberculosis, all forms Whooping cough	Measles	Influenza	Pneumonia (4 weeks and over)	Gastro-enteritis and colitis	Congenital malformations Postnatal asphyxia and atelectasis	-With immaturity	Pneumonia of newborn—	-with immaturity	Haemorrhagic disease of newborn-			Ill-defined diseases peculiar to	early infancy—	mmaturity		All other accidents	(Infective and parasitic diseases)	Allergic, etc. diseases)	ases of digestive system)
	Int. List No.		ALL	610	085 Measles	.,	490-493 Phet			13:	Pı	÷ re		0. 077	0.	773 III-de	15	922	795 III-de	~	—	H	

TABLE 23A—LIVE BIRTHS OF INDIANS, ALBERTA, BY MONTHS, 1957 (ALL INDIANS)

						M	ONTH	IS					
	Total	January	February	March	April	May	June	July	August	September	October	November	December
Province of Alberta	1636	159	150	144	144	135	133	141	134	134	135	109	118

TABLE 23B—LIVE BIRTHS OF INDIANS, ALBERTA, BY MONTHS, 1957 ("TREATY INDIANS")

						M	ONTE	IS					
	Total	January	February	March	April	May	June	July	August	September	October	November	December
Province of Alberta	894	87	96	85	88	75	70	73	69	71	71	50	59

TABLE 24—LEGITIMATE AND ILLEGITIMATE BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS) IN ALBERTA, BY PLACE OF RESIDENCE OF MOTHER, 1957 (ALL INDIANS)

	То	tal Birtl	hs	L	egitimat	e	Il	legitimat	e
	Total	Male	Female	Total	Male	Female	Total	Malæ	Female
Total	1636	848	788	1117	583	534	519	265	254

TABLE 25—LEGITIMATE AND ILLEGITIMATE BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS) IN ALBERTA, BY PLACE OF RESIDENCE OF MOTHER, 1957 (TREATY INDIANS)

	To	otal Birt	hs	L	egitimat	e	Il	legitima	te
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total	894	464	430	612	316	296	282	148	134

TABLE 26A—LIVE BIRTHS OF INDIANS BY AGE OF PARENTS, ALBERTA, 1957

_						AGE	OF	FAT	HER					ers	STS	
Æ	GE OF MOTHER (years)	Under 20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65 and over	Not stated	Total born to married mothers	Born to un-	Born to all mothers
	years years		11000000000000000000000000000000000000	221 188 100 166 222 221 334 295 213 33 31 177 5 2 2 3 3 3 1 3 1 1 2 2 1 1 1 1 1 1 1 1 1	23 35 76 67 75 15 18 19 19 13 11 21 21 21 31 31 4 22 2 3 3 4 4 2 2 2 3 3 3 5 18 19 19 19 19 19 19 19 19 19 19 19 19 19		31 12 11 11 13 36 69 95 51 11 110 10 7 9 9 12 8 8 5 3 3 3 3 3 1 1 10 10 10 10 10 10 10 10 10 10 10 10	11 11 13 11 22 33 1 	31 11 22 44 11 33 33 33 33 33 33 33	22 33 11 1		22	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 29 49 49 49 58 633 38 85 54 44 45 11 11 11 11 11 11 11 11 11 11 11 11 11	26 62335 42245 41277 3840 22317 17727 1006 6226 6334 4112 22	3 3 5 64 9 103 104 65 113 107 77 76 1 78 59 9 8 48 54 47 48 88 32 24 18 13 10

TABLE 26B—LIVE BIRTHS OF TREATY INDIANS BY AGE OF PARENTS, ALBERTA, 1957

					AGE	OF	FATE	IER					- E	BI.	
AGE OF MOTHER (years)	Under 20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65 and over	Not stated	Total born to married mother	Born to un- married mother	Born to
15 years 16 years 17 years 18 years 19 years 19 years 20 years 21 years 22 years 23 years 24 years 25 years 26 years 27 years 28 years 29 years 30 years 30 years 31 years 32 years 33 years 34 years 35 years 36 years 37 years 38 years 39 years 39 years 41 years 42 years 43 years 44 years 45 years 47 years 48 years 48 years 49 years 49 years 49 years 49 years 50 and over Not stated Total Fathers		6 9 15 200 17 7 14 10 13 3 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 5 8 8 8 10 222 19 118 115 11 1 2 2 2 1 1 1		1 2 2 6 6 6 100 110 110 110 110 110 110 110 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22 4 4 22 1 1 1 4 3 5 5 1 1	3 1 1 2 2 2 2 2 1 1 1 1 2 2 2 3 3 3 1 1 1 1			1		6 144 322 299 199 466 389 344 227 300 288 166 144 114 114 114 115 112 115 115 115 115 115 115 115 115	5 7 7 222 225 229 166 119 200 133 111 1122 8 8 4 4 8 8 8 8 3 3 5 5 1 1 5 5 2 2 1 1	5 13 3 36 46 46 57 58 35 59 47 7 32 2 37 177 199 111 1 4

TABLE 27 — BIRTHS BY PLACE OF OCCURRENCE, AND PLACE OF RESIDENCE

		Other	9 101280 000
		.A.z.u	745 745 745 745 745 745 745 745 745 745
		.T.W.N	900 882 882 8850 8850
E, 1957		дочих	494 3 3 111 111 111 111 111 111
OCCURRENCE AND PLACE OF RESIDENCE		B,C,	38,744 11 11 11 105 38,522 38,522 45
OF RES	CE	Alta.	35,718 4 4 2 2 2 2 2 2 35,309 35,309 11 1
PLACE	PLACE OF RESIDENCE	⊒ask.	23,921 1 2 2 2 2 2 3,572 110 7
AND	ACE OF	Man.	22,362 5 1 1 1 1 1 1 1 1 22,144 20 3 3
KKEINCI	PL	Ont.	150,920 24 23 232 150,339 118 118 12 12 12 12 147
		Gue.	141,707 14 139,671 1,553 1,553 8 8 158
ACE OF		N.B.	17,020 2 3 16,725 10,725 1 1 1
- butter by thack of		.s.и	19,316 5 19,196 14 34 34 34 1
CILLIAN		P.E.I.	2,676
ī		.bilv.	15,315 15,250 15,250 6 9 9 9
Transit I		Total escurrence	469 884 15,862 1,668 19,352 140,052 150,052 150,052 150,053 150,053 18,623 38,6
		PLACE OF OCCURRENCE	Total (residence) Newfoundland Prince Edward Island Nova Scotia New Brunswick Queber Ontario Manitona Assakarchewan Alberta British Columbia Yukon North West Territories

TABLE 28: LIVE BIRTHS AND LIVE BIRTHS IN HOSPITAL BY OCCURRENCE AND RESIDENCE FOR CENSUS DIVISIONS, ALBERTA, 1957

		TOTAL	BIRTHS		BIR	THS IN	HOSPIT	ALS
CENSUS DIVISIONS	Total by Occurrence	Total by Residence	By Occurrence; Residence Elsewhere	By Residence; Occurrence Elsewhere	Total by Occurrence	Total by Residence	By Occurrence; Residence Elsewhere	By Residence; Occurrence Elsewhere
Division No. 1 Division No. 2 Division No. 3 Division No. 3 Division No. 4 Division No. 5 Division No. 6 Division No. 7 Division No. 7 Division No. 9 Division No. 10 Division No. 10 Division No. 11 Division No. 12 Division No. 12 Division No. 12 Division No. 13 Division No. 14 Division No. 14 Division No. 15	35,623 870 2,279 882 427 754 8,129 1,074 2,092 488 1,469 11,944 1,539 914 344 2,418	35,718 966 2,072 978 428 973 7,865 1,126 1,978 431 1,716 11,436 1,581 1,070 593 2,505	314 43 258 53 63 450 73 215 110 146 846 97 119 18	409 139 51 149 54 282 186 125 101 53 393 338 139 275 267 127	34,740 855 2,224 828 408 728 8,101 1,062 2,054 471 1,451 11,907 1,256 876 876 327 2,192	34,838 951 2,018 923 409 951 7,836 1,114 1,942 414 1,698 11,396 1,335 574 2,275	308 43 255 53 58 447 73 213 109 145 845 93 116 15	139 49 148 54 281 182 125 101 52 392 334 139 275 262

TABLE 29: LIVE BIRTHS BY OCCURRENCE AND RESIDENCE FOR URBAN PLACES OF 1,000 POPULATION AND OVER, ALBERTA, 1957

	То	tal Liv	e Birtl	ns	Live I	Births	in Hos	pitals
CITY, TOWN OR VILLAGE	Total by Occurrence	Total by Residence	By Occurrence: Residence Elsewhere	By Residence; Occurrence Elsewhere	Total by Occurrence	Total by Residence	By Occurrence; Residence Elsewhere	By Residence; Occurrence
Athabasca Barrhead Beverly Blairmore Sonnyville Bow Island Bown Island Bowness Brooks Bagary Barrose Bardston Barrose Bardston Barrose Bardston Barrose Bardston Barrose Bardston Barrose Bardston Barrose Bardston Barrose Bardston Barrose Bardston Boldeman Bown Boldeman Bown Boldeman Bown Bown Boldsbury Brayton Valley Brumheller Bomonton Bodson Bairview Borrost Lawn Borrort McLeod Borr Saskatchewan Brande Prairie Banna Bigh River Bigh Riv	289 161 101 530 186 364 243 173 1,369 61 243 46 856 214 220 172 205 91	500 477 217 399 677 217 2188 828 6.2122 1722 1 1268 88 11 622 1 1722 1 1268 1 100 1	151 157 1 146 1,362 286 1,362 286 1,362 286 1,362 112 1197 3,263 160 119 33 33 160 119 187 528 187 294 140 141 157 162 162 163 163 163 163 163 163 163 163	5 12 217 39 9 9 21 118 118 118 120 105 29 105 21 102 11 101 20 22 102 11 101 20 21 102 103 104 11 105 105 106 107 107 107 107 107 107 107 107 107 107	195 191	50 47 2177 2172 212 268 85 88 81 154 51 51 31 213 31 100 163 8,360 44 102 73 101 103 66 69 88 88 88 88 110 121 31 31 121 31 31 121 31 31 121 31 31 31 31 31 31 31 31 31 31 31 31 31	105 48 237 78 173 153	3

TAI	BLE 30	: LIV	Æ BI	RTH	SBY	MON	TH, 1	957,	ALBE	RTA			
	Total	January	February	March	April	Mmy	June	July	August	September	October	November	December
Province of Alberta	35,718	2,752 	2,653	3,047	3,031	3,182	3,033	3,188	3,026	3,087	3,063	2,798	2,858

TABLE 31: LIVE BIRTHS FOR CENSUS DIVISIONS BY TYPE OF ATTENDANCE. ALBERTA, 1957

	_		Attende	d by	
CENSUS DIVISIONS	Total	Physician	Nurse	Midwife	Unattended and Not Stated
ALBERTA Division No. 1 Division No. 2 Division No. 3 Division No. 3 Division No. 4 Division No. 5 Division No. 6 Division No. 6 Division No. 7 Division No. 8 Division No. 9 Division No. 10 Division No. 11 Division No. 12 Division No. 13 Division No. 13 Division No. 14 Division No. 14 Division No. 15	35,718 966 2,072 978 428 973 7,865 1,126 1,978 431 1,716 11,436 1,581 1,070 593 2,505	35,082 951 2,028 922 417 909 7,846 1,118 1,955 1,704 11,415 1,496 1,041 586 2,291	211 9 28 50 1 18 5 6 37 6	213 12 28 25 7 2 9 13 2 13 2 15 19 7 7 7	212 3 4 12 9 6 6 8 8 10 29 16

TABLE 32: LIVE BIRTHS IN INCORPORATED URBAN PLACES OF 1,000 POPULATION AND OVER BY TYPE OF ATTENDANCE, ALBERTA, 1957

			Attende	ed by	
CITY, TOWN OR VILLAGE	Total	Physician	Nurse	Midwife	Unattended and Not Stated
Athabasca	50	50			
Barrhead	47	47			
Beverly	217	217			
Blairmore	39	39			
Bonnyville	67	66	1		
Bow Island	21	21			
Brooks	268 82	268			
Calgary	6,212	6,208		******	4
Camrose	172	172			
Cardston	85	85	*******		
Claresholm	88	88			*******
Coaldale	81	81			
Cold Lake	62	62			******
Coleman	55	55	1		
Devon	51	51			
Didsbury	31	31			
Drayton Valley Drumheller	218 100	217 100			1
Edmonton	8.364	8.363	1		
Edson	163	163	1		*******
Fairview	44	44			
Forest Lawn	102	102			
FORT MCLEOG	74	73			1
Fort Saskatchewan	101	101			
Grande Prairie	306	306			
Hanna	88	88			
High Prairie	78	77		<u> </u>	1
High River	49 61	49 61			
Jasper Place	692	690	1		1
Lacombe	97	97	1		1
Leduc	69	69			
Lethbridge	857	857			*******
Lloydminster	118	118			
wagrain	28	28		0	
McLennan McMurray	58	58	*******		
McMurray Medicine Hat	24 575	24 573		1	1
Nanton	37	37	*******	1	1
Olds	84	84			
Peace River	114	114			
Pincher Creek	88	88			
Ponoka	107	107			
Raymond	46	46		******	*******
Red Deer	43	43	*******		
Red Deer	554 59	554 59			
Rocky Mountain House	93	93	*******		******
St. Albert	56	56			
St. Paul	107	107			
Stettler	152	151			1
Stony Plain	47	46)		1
Sylvan Lake	35 110	35		*******	
Three Hills	56	110 56			
Vegreville	68	68			
Vermilion	72	72			
Vulcan	39	39			
Wainwright	126	126			******
Westlock	47	47			******
Wetaskiwin	141	141			

TABLE 33: LIVE BIRTHS BY AGES OF PARENTS, ALBERTA, 1957

				AC	GE OF	F FA	THER	,							
Age of Mother (years)	Under 20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65 and over	Not stated	Total born to married mothers	Born to un- married mothers	Born to all mothers
13 years 14 years 15 years 16 years 17 years 18 years 19 years 19 years 20 years 21 years 22 years 22 years 22 years 23 years 24 years 25 years 26 years 27 years 30 years 30 years 31 years 32 years 32 years 33 years 34 years 32 years 33 years 34 years 35 years 36 years 37 years 38 years 39 years 31 years 34 years 34 years 34 years 34 years 35 years 36 years 37 years 38 years 39 years 40 years 41 years 42 years 42 years 43 years 44 years 45 years 46 years 47 years 48 years 48 years 49 years 49 years 49 years 49 years 49 years 50 and over Not stated Total Fathers	3330 588 711 611 223 86 612 21 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 9 979 264 508 811 946 9908 8797 619 404 404 111 8 5 1 1 5 3 						11 1 2 4 4 5 5 3 15 11 1 1 1 2 2 7 2 7 2 2 8 3 0 3 1 2 4 2 9 3 1 5 6 6 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 2 2 2 5 5 1 2 2 3 3 100 12 7 7 14 6 6 6 9 5 5 6 6 5 3 6 6 5 3 6 6 6 5 3 6 6 6 5 3 6 6 6 5 3 6 6 6 6	1 1 1 2 1 1	1 22 1 3 3 1 1	222		1 10 22 92 1466 113 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 122 388 2255 572 990 1,533 2,143 2,143 2,443 2,443 2,443 2,152 1,865 1,168 3

BUREAU OF VITAL STATISTICS

TABLE 34 — LIVE BIRTHS BY AGE OF MOTHER AND RIRTH ORDER ALBERTA 1957

								0	ORDER	R OF	BIRTH	TH OF		CHILD										
Age of Mother	LetoT	ist	puz	Srd	ЧЪ	чтс	Ч 19	чэд	Ч18	4701	47.TT 430T	тътр	члет	чзъг	पादा	4391	पश्डा पश्चा	416I	Z0fP	Zist	S2nd	Учен —	T29Z	412Z 419Z
years	F	-								-	-		-					-			-	-		
years	38	112							1 1	1 1	. , ! !	: : 	: :					1 1	1 1		: :	1 I 1 T	1 1	1 1
Vears	25.65	919	12	:	:	-	;	;	:	:	-	-	:	:		-	1	:	:	:	-	-	-	-
years	572	503	65	4							: :		1 1					: :			:	-	i	1
years	066	422	218	17	H	17	1	:	-	1	-	-		Ī			1					: : 		
years	1,052	1,070	5/4	101	010	7	:	:	1	1		-	-		-	:	-	1	:	-	-	:	-	:
Vears	2,106	1,00	733	9779	3 %	T (4	-	!	-	1	-	-	1	-	-		:	:	:	:	1	-	-	Ī
years	2,348	925	878	373	140	30	7 -	-	7	1	:	1	-	:	!	!	1	:	1	1	:	:	-	:
years	2,443	812	305	468	189	209	12	1		: :	:		:			-		:	-	1	:	:	;	:
years	2,413	645	928	557	236	78	8	6	2									: :		:	-	: -	:	-
years	2,372	524	2002	299	285	113	45	14	7	-		:										: :		
years	2,169	410	650	578	306	135	99	22	7		-	:	-	-	-	:	-		-	-				
years	Z,001	351	530	557	308	139	888	25	200		i	1	1	-	;		-	:	-	-	1		-	ī
Vears	1,000	207	282	404	300	100	88	900	273				1	-	-	1	1	1,	:	T	1	+	1	:
years	1.537	1961	305	413	288	200	9 8	0 7	23	78	7 7	40	10	Ī	:	-	1	:	1	1	:	-	:	i
years	1,440	146	272	351	287	182	68	53.	37						:	:	:	:		:	:	:	:	!
years	1,276	110	217	324	249	191	79	62	34													: :		: :
years	1,169	102	179	268	228	157	26	25	37						-	1	1	-	-					
years	1,043	60	147	737	707	142	100	526	33			4.	4	1		:	-	1	-	1	1			:
Vos re	2000	000	199	1420	181	147	900	Tq	89							:	:	-	:	1	-	:	-	1
Vears	187	3 4	3 6	190	104	777	3 S	8 4	248		ľ				7	1	-	:	-	I	-	-	1	Ī
vears	7.00	2	18	774	116	TOT	- 09	3 =	35							٦	1	-	-	:	1	:	-	1
vears	466	000	48	74	2027	3 9	60	22	27							: 0	1	:	1	i	1	:	i	:
years	305	12	27	40	46	52	3 %	24	17			1				10	-	:	-	1	1	:	-	:
years	227	6	16	31	33	35	25	22	5							n cr	1			1		1	!	1
years	198	4	13	25	27	26	20	23	13							H	i m	-	Т			: :		
years	147	20	2	15	77	13	11	15	2				2, 4	4		4		-	:	;	-	-	:	
years	9,6	70 7	4	-	12	91	6	1-1	77				0	20		П	7	7	:	-	-	:	-	1
years	34	٦,	:	· 0	3	ر د ما	က	m 1	4			_	2	-	I	-	-		-	:	-	-	-	:
years	110	70	:	1 -	-	-1+	7		:0	:				Н .	Н	:	:	:	:	1	-			:
Vears	77	4	:	7	:	7		7) T	N =	-	-	-		-	:	:	:	1		:	-	:	I	;
Vears	1			:		-	3	7	4			:	:		1	1	-	1	:	:	1	:	-	1
and over						4		:	1	:		:	:	:	:	1	-	1	-		:	:	-	1
stated	17	N	11	3	11	H						: :			1 1			: :		1		1 1		
	- i	- 600	000	- 200	100																	_		
*************************	18T) CC	25.50	X 5	178.9	4 7 4 4	7.7	999	700	4.46	0000	200	2	5	3	10	1 A	15	cr.	-			_		•

TABLE 35: MULTIPLE BIRTHS BY AGE OF MOTHER, ALBERTA, 1957

			Singl	le	Sets	of t	wins	Se	ts of	tripl	lets
	Age of Mother (years)	Total Children Born	Liveborn	Stillborn	Both Liveborn	1 liveborn 1 stillborn	Both Stillborn	All Liveborn	2 liveborn 1 stillborn	1 liveborn 2 stillborn	All Stillborn
otal		36,103	34,948	362	368	19	2	5			
3 years		1	1								١
4 years		12	12								
5 years	s	39	38	1							
6 years	3	228	221	3	2						-
7 years		577	564	5	4					[
8 years		1,003	972	13	9]]	l]	
9 years		1,545	1,515	12	8	1					
0 years		1,879	1,843	12	12						١.
1 years		2,129	2,066	19	18	4					١.
2 years		2,365	2,308	16	18	1		1			
3 years		2,461	2,401	17	19	1		1			
4 years		2,439	2,361	24	25	2					
5 years		2,394	2.317	18	26		2	1	ii		
6 years		2.193	2.120	23	21	1		2			
7 years		2,014	1,965	13	18						
8 years		1,906	1.849	19	17	2					
9 years		1,701	1.644	15	20	1					
0 years		1.556	1,503	17	16	2			1111		
1 years		1,459	1,396	17	21	2					
2 years		1.291	1.242	15	17	~					
3 years		1,184	1.141	15	14						
4 years		1.065	1.022	15	13	1					i .
5 years		999	963	10	12	1		****			
6 year		843	804	9	15					1	
7 years		724	683	9	16						
		563	539	8	8						
		478	446	12	10						
		310	295	5	5			****			
0 0		233	223	6	2						
1 years				5	1			****			
2 years		203	196	2	1						
3 years		149	145	5							
4 years		81	76	Э					****		
5 years		34	34								
6 years		10	10					****			
7 years		11	11								
8 year		4	4							!	
9 years		2	1	1							
	over										
Jot stat	ted	18	17	1							

TABLE 36: MARRIAGES BY MONTH OF MARRIAGE, 1957, ALBERTA

January	
February	502
March	
April	ever o
May	
June	4 44
July	4 00 4
August	
September	816
October	889
November	969
December	730
Total	10.117

- MARRIAGES-AGES OF BRIDE BY AGE OF GROOM, ALBERTA, 1957 37 TABLE

TABLE 38: MARRIAGES, MARITAL STATUS OF BRIDEGROOM BY STATUS OF BRIDE, 1957, ALBERTA

				M	ARRIA	GES BI	ETWEE	N.		
		Bac	helors	and	Wie	lowers	and	Divor	ced Mer	and
	Total Marriages	Spinsters	Widows	Divorced Women	Spinsters	Widows	Divorced Women	Spinsters	Widows	Divorced Women
Alberta	 10,117	8,655	229	358	106	187	45	348	63	126

TABLE 39: MARRIAGES, MARITAL STATUS BY AGE OF BRIDEGROOM, 1957, ALBERTA

		MARITAI	STATUS	
AGES	Total	Bachelors	Widowers	Divorced Men
Under 20 years 20-24 years 25-29 years 30-34 years 35-39 years 40-44 years 45-49 years 50-54 years 60-64 years 60-64 years 60-67 years 70-74 years Not stated	582 4,581 2,810 952 418 234 160 117 78 48 70 38 27 27	582 4,559 2,676 823 314 126 64 45 19 13 9 5 5	12 15 10 31 37 43 49 33 56 31	22 122 114 94 77 59 29 10
Total	10,117	9,242	338	537

TABLE 40: MARRIAGES, MARITAL STATUS BY AGE OF BRIDE, 1957, ALBERTA

-	N	IARITAL	STATUS	1
AGES	Total	Spinsters	Widows	Divorced Women
Under 20 years 20-24 years 25-29 years 30-34 years 35-39 years 40-44 years 45-49 years 50-54 years 50-54 years 60-64 years 60-64 years 70-74 years 70-74 years 70-74 years	3,407 4,035 1,264 576 268 179 139 75 67 40 20 8	3,402 3,957 1,086 400 124 71 38 15 10 2 2	1 14 38 48 69 47 69 49 48 31 38 19	66 144 122 7: 6: 3: 11:
Total	10,117	9,109	479	52

TABLE 41 — MARRIAGES, BIRTHPLACE OF GROOM BY BIRTHPLACE OF BRIDE, ALBERTA, 1957

		Unspecified		
		Other	о н н н н н н	6
		United States	2 10 11 10 27 8 4 9 10 11 12 12 12 12 12 12 12 12 12 12 12 12	153
		ßisA	р	73
		Entope	51 123 824 882 882 882 882 882 882 882 882 882	1098
		Brittsh Isles and Possessions	8 112 48818814	339
		Province Unspecified		:
		Northwest Territories	00 HH 014	00
		Дпкоп		
		British Columbia	198 144 1100 1100 1100 1100 1100	216
		Alberta	2712 2712 846 2718 2788 2788 2788 4181 165 1159 346 346 61126	6356
BRIDE		Saskatchewan	1070 111 112 233 333 333 333 111 144 141 141 141 141 1	1200
	DA	adotinaM	212 223 248 234 234 234 234 234 234 234 234 234 234	256
BIRTHPLACE OF	CANADA	Ontario	210 110 124 254 254 254 254 254 254 254 254 254 2	258
BIRTH		oguebec	<u>ω-η</u> ω-η κα στο μα μα κα στο μα μα στο μα μα στο μα μα στο μα μα στο μα μα στο μα μα στο μ	67
		Brunswick	<u>8 144884888 142 14</u>	27
		Nova	100 100 100 100 100 100 100 100 100 100	46
		Prince Edward	9 7 1 7 6 9	9
		Newfoundland	4	4
		Total	7546 199 199 199 199 199 199 199 199 199 19	8445
		Total Grooms	229 88 88 38 1111 1111 450 271 271 271 1,884 1,884 1,884 1,884	10,117
		BIRTHPLACE OF GROOM	Canada New/Condiand Now/Condiand Now Scotia Now Brunswick Quebec Ontario Manitoba Saskatchewan British Columbia British Lolumba British Isles & Possessions. Europe British Isles & Possessions. Colther United States United States United States United States United States United States	Total

TABLE 42 — MARRIAGES—RELIGIOUS DENOMINATION OF GROOM BY RELIGIOUS DENOMINATION OF BRIDE, ALBERTA, 1957 (Continued)

	OTESPECITIES OF WINDOWN	cc	
	99 Non-religious denominati	66 '86	H H H H H H H H H H H H H H H H H H H
-	Other religions	16	THE STATE OF THE S
	United Church of Canada	06	200 1
-	Unitarians	99	
-	Swedenborglans	99	
	Spiritualists		
	Society of Friends	99	
	Salvation Army	52	
	Roman Catholics	08	1111 2 2 1 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1
(Reform Churches (Christian	£9	<u> </u>
	Presbyterians	02	
	Plymouth Brethren	79	
	Pentecostal Assemblies	₽7	20 10 11 11 11 10 10 10 10 10 10 10 10 10
3	So Oriental religions	31-8	
- BKIDE	Non-denominational	76	4 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Mormons	23	0 2 1 1 1 1 1 4
	Moravian Church	19	
DENOMINATION	Methodists	77	н н п
	Mennonites	96	H H 6 H H H H H 1 1 1 2 2
5	Lutherans	09	25 26 6 11 28 84 88 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
고	1æwish	96	I
2 -	International Bible Students	81	E 1 2 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1
2	Holiness Movement	29	1 1 1 7
KELIGIOUS	Greek Catholic Churches	30	173 173 125
2	Gospel bodies	99	10 10 10 11 11 11 11 11 11 11 11 11 11 1
	Evangelicals	LT	m н н н н н н н н н н н н н н н н н н
	Eastern Orthodox Churches	0Þ	22 11 2 11 11 11 11 11 11 11 11 11 11 11
	Doukhobors	₹ 6	
	Church of God	₽9	
(Si	Churches of Christ (Disciple	12	<u> </u>
	Christian Scientists	₽Ľ	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
96	Christian Missionary Alliand	53	
	Christians	£1	
	Christadelphians	29	
	Brethren including United	12	
	Baptists	20	
	Apostolic bodies	TS	
-	Anglicans	OT	33.33.33.33.33.33.33.33.33.33.33.33.33.
	Adventists	11	
	al Grooms	10T	315 315 32 32 32 32 32 32 32 32 32 32 32 32 32
	RELIGIOUS DENOMINATION OF GROOM		Adventists Anglicans Anglicans Baptists Baptists Brethren including Christaelephians Christian Missionary Allance Christian Scientists Churches of Christ Churches of Christ Churches Churches Churches Eastern Orthodox Churches Evangelicals Churches Evangelicals Churches Evangelicals Churches Evangelicals Greek Catholic Churches Evangelicals Greek Catholic Churches Evangelicals Greek Catholic Churches Fourtherans Futherans Students Futherans Fu

TABLE 42 — MARRIAGES—RELIGIOUS DENOMINATION OF GROOM BY RELIGIOUS DENOMINATION OF BRIDE, ALBERTA, 1957 (Continued)

1	Unspecified or unknown	66	:	-	1		-	-	: 60				1	į	;	-	œ
su		·86		-	1	H	1		9				3		10	-	8
-	Other religions	16				H	T		Н	:		П	.0	0	:	:	12
	United Church of Canada	06	9	4.04	41	170	9	,	237	ಣ	-		1906	٦ ;	14	!	3080
	Unitarians	99				II	;					-	-		1	1	2
	Swedenborgians	99		1		П	-		1 1			-	1	1	-	-	
	Spiritualists	₽9		1		ĪĪ	1						1	-	-	1	-
	Society of Friends	22		1		П	1		1 1	1		T	Н	1	1	-	H
	Salvation Army	SZ		H	Н	11	Ī		H	7	1	-	00	;	1	1	23
	Roman Catholics	08	70	T I	29	77	10		1623			Н	263	1	1	Н	2459
-	Reform Churches (Christian)	£9		-		<u> </u>		T	4				33	1		1	326 154
	Presbyterians	02		Н :	Н	<u></u>	100		41	٦ :		-	77		-	1	326
	Plymouth Brethren	79		1 1	i	1	-		1 1	1		-		:		:	00
-	Pentecostal Assemblies	₹7		H	30	98	: 10	T	100			-	23	-	1	:	162
	35 Oriental religions	31-			26	3 !	H		H			1	H	1	-	1	42
	Non-denominational	76		12	$\overline{}$	N	F	C	13			-	19	-	:	:	197
	MorrioM	23		113	-	(n)		T	T	11		-	32	T	7		184
	Moravian Church	T9	1	2		H	H	_ E	1,11		1 1	:	-	7	⊣ —	-	12
	Methodists	77	- 63	1 1	-		1		9		1 :	1	C/	!	1	1	15
	Mennonites	96		2	Ħ	H	H	0	170		H	1	9		1	:	116
	Lutherans	09	_ w :	00	15	12	23	4	140		11	-	136	1 7	7	1	983
	Jewish	96			П						11	T	Ť		1		22
	International Bible Students	81			T	Н	H		7	T		ī	ಣ			Ī	25
	Holiness Movement	29	-		1	Н			П	П	1	1	N	-	ī	1	20
	Greek Catholic Churches	30	-		9		. 10	-	62			1	24	T	٠,	4	322
	Gospel bodies	99		H	7				П	1 1	11	1	က		1		21/3
	Evangelicals	2T	1	11	0	2			Н	11		-	4		1		36
	Eastern Orthodox Churches	0ъ	<u> </u>		9		9		8			H	62		1	1	382
	Donkhobors	₽ 6			1	П				11		1					-
	Church of God	₽Ġ		7	I	н			22		11	1	10		:		43
(S	Churches of Christ (Disciple	gī		T	Н				Н	11	11	-	00	-	4		18
	Christian Scientists	ħΙ	T		1		H		н	1 1		1	N			i	∞
ә	Christian Missionary Alliano	53	-	4	П	Н			က		11	-	20			: :	 86
	Christians	EI	-23	H	H						11		-	_		1	13
	Christadelphians	25	-		1				н	11	T	-			Ī		~
	Brethren including United	12	Hr	4 11	П		7	-	-		7 1	'	9 =		ī -		88
	Baptists	20	3	17	00 C/	9	14		75	٦ ;			57	-	1		315
	Apostolic bodies	TG	<u> </u>			1	1		T	T		17	2		<u> </u>		5
	Anglicans	OI		1 10 (77	4	8	-4	99	4	11		245	cr.	7	1 [2
	Adventists	TI		П		H	ī		3		11		5				48 927
	tal Grooms	оТ	337	186	4	152	347	173	2,326	# 1	22		2,910	000	3 4		10,117
	RELIGIOUS DENOMINATION OF GROOM		Methodists Moravian Church	Mormons	Non-denominational Oriental religions	Pentecostal Assemblies	Presbyterians	Reformed Churches (Christian)	Roman Catholics 2	Society of Friends	Swedenborgians		a si	Non-religious denominations	Unspecified or		Total Brides

TABLE 43: STILLBIRTHS BY SEX AND PERIOD OF GESTATION, 1957, ALBERTA

PERIOD OF GESTATION	Male	Fem
28 weeks	11	8
29 weeks	4	5
30 weeks	11	12
31 weeks		7
32 weeks	3	12
33 weeks	2	P.
34 weeks	15	11
35 weeks	10	8
36 weeks	19	18
37 weeks	12	15
38 weeks	24	20
39 weeks	15	17
40 weeks		37
41 weeks		4
42 weeks		7
43 weeks	3	2
44 weeks		2
45 weeks	1	
46 weeks	1	i
47 weeks		
48 weeks		1
49 weeks		
Not stated	9	5

TABLE 44: RATIO OF MALE TO FEMALE BIRTHS, AND OF BIRTHS TO DEATHS

Year	Births of Males to 1,000 Births of Females	Ratio of Births to Deaths	Year	Births of Males to 1,000 Births of Females	Ratio of Births to Deaths	
1905	1.059	3.13	1931	1.075	3.25	
906	1.094	2.07	1932	1.052	3.08	
907	1.075	2.96	1933		3.01	
908	1.077	2.73	1934		3.04	
909		2.59	1935		2.81	
910	1.065	2.69	1936		2.57	
911	1.103	2.43	1937		2.38	
912		2.43	1938		2.70	
913	1.053	2.67	1939	1.046	2.85	
914	1.081	3.30	1940	1.033	2.79	
915	1.000	3.74	1941	1.054	2.71	
916		3.29	1942	1.058	3.02	
917		3.25	1943		2.96	
918	1.069	1.88	1944		3.06	
919		2.56	1945		3.08	
920	1.055	2.92	1946		3.36	
921		3.32	1947		3.76	
922		3.06	1948		3.44	
923		3.13	1949		3.52	
924		2.97	1950		3.74	
925		2.97	1951		3.76	
926	1.053	2.80	1952		3.95	
927	1.065	2.94	1953		4.10	
928		2.75	1954		4.60	
929		2.71	1955		4.31	
930		3.21	1956		4.48	
	1		11957	1,055	4.32	

BUREAU OF VITAL STATISTICS

TABLE 45: DIVORCES AND NULLITIES, BY JUDICIAL DISTRICTS, FOR THE YEAR 1957, ALBERTA

	DIVORCES			NULLITIES		
JUDICIAL DISTRICTS	Number of Divorces	Granted to Husband	Granted to Wife	Number of Nullities	Granted to Husband	Granted to Wife
Edmonton	345	160	185	3	1	2
Calgary	310	124	186	4	1 1	2 3
Lethbridge	31	13	18	1		1
Medicine Hat	11	4	7			
Grande Prairie	7	4	3			
Hanna	i	1	3			
Red Deer	12	1	5	****		
Drumheller	12		9			
Rows Brant 2	1	1				
Trake alainain		-				****
7	6 2	2	4			
vegreville	2	1	1			
Total	726	317	409	8	2	6

DIVORCES AND NULLITIES IN ALBERTA SINCE THE PASSING OF THE ACT

YEAR	Granted to Husband	Granted to Wife	Total
9	3	3	
20	74	26	6
21	53		100
22	80	37	90
23	57	49	129
24		32	89
	66	53	119
	59	42	101
	79	75	154
	83	66	149
	91	84	175
10	77	71	148
	64	87	151
	69	87	156
	68	81	149
3	56	79	135
34	62	106	168
5	74	135	209
6	74	135	209
7	102	139	241
8	105	162	267
9	104	163	267
0	119	154	273
1	135	176	311
2	179	201	380
3	190	223	413
4	245	243	488
5	302	273	575
6	494	480	974
7	404	478	882
8	302	357	659
9	262	332	594
0	249	311	550
1	255	334	589
2	239	391	
3	228	375	630
4	224	384	603
5	233		608
5		394	627
	278	410	688
	317	409	726

TABLE 46 — POPULATION, BIRTHS, MARRIAGES, DEATHS, AND RATES FOR THE YEARS 1905-1957

	ANNUAL REPORT, 1957 93
Natural	
Puerperal Death Rate per 1,000 Births	
Infantile Death Rate per 1,000 Births	8528
Death Rate	
Number of Deaths	11 11 22 22 22 22 22 22 22 22 22 22 22 2
Marriage Rate	1886 1986
Number of Marriages	22.22.23.23.23.23.23.23.23.23.23.23.23.2
No. of Births Received to Date	444
Birth	88888888888888888888888888888888888888
Number of Births	2.25.05.55.55.55.55.55.55.55.55.55.55.55.55
Population	1185 000 228 000 228 000 228 000 236 000 237 000 232 000 232 000 232 000 232 000 232 000 233 0
Year	1906 1906 1907 1908 1911 1912 1913 1914 1918 1918 1924 1927 1928 1928 1928 1928 1928 1928 1928 1928
	996.999.999.999.999.999.999.999.999.999

